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THERMOPHYSICAL AND ELECTRONIC PROPERTIES OF FOREIGN STAINLESS S--ETC(U)  
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THERMOPHYSICAL AND ELECTRONIC PROPERTIES OF  
FOREIGN STAINLESS STEELS

A Comprehensive Survey of the World Literature

P.D. DESAI

CINDAS REPORT 61

November 1981

Prepared by  
THERMOPHYSICAL AND ELECTRONIC PROPERTIES  
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## PREFACE

This State-of-the-Art Report was prepared by the Thermophysical and Electronic Properties Information Analysis Center (TEPIAC), a Department of Defense Information Analysis Center. This Center is operated by the Center for Information and Numerical Data Analysis and Synthesis (CINDAS), Purdue University, West Lafayette, Indiana 47906, under Defense Logistics Agency (DLA) Contract DLA900-79-C-1007. The Government Administrative Manager for TEPIAC is Mr. J.F. Pendergast, Program Manager for Information Analysis Centers, Defense Technical Information Center (DTIC), Cameron Station, Alexandria, Virginia 22314. TEPIAC is under the technical direction of the Army Materials and Mechanics Research Center (AMMRC), Watertown, Massachusetts 02172, with Mr. David W. Seitz as the Contracting Officer's Technical Representative. The Contract was issued by the Defense Electronics Supply Center, Dayton, Ohio, with Ms. Sara M. Williams as the Contracting Officer.

This report presents the most complete list of information and data sources that are known to exist for the thermophysical and electronic properties of foreign stainless steels. These steels are arranged according to the compositions, which make it simpler to compare these with the U.S. steels and to find their equivalent. The data and information on the properties of foreign stainless steels are important not only in its own right, but are also for use in helping to resolve the controversy between various data available on the U.S. equivalent steels or even to fill the data gaps that may exist in the properties for U.S. steels. The bibliography in this report contains approximately 431 citations.

It is possible for the user to make retrospective searches quickly on over 460 different foreign steels which are listed in the Materials Directory. In turn, the user refers to the Technical Coding to tailor each search for retrieval on any given set of parameters, such as property, physical state, subject, and temperature range. Finally the search will yield a selection of citations from the Bibliography. Simple and easy to use instructions are included.

This work is believed to be very useful to DoD and other engineers and scientists working on various research, development, and engineering programs who have a need for information on foreign stainless steels.

The author wishes to acknowledge the individual and collective contributions of our Scientific Documentation Division which have made this publication possible. Additions to the file continue on a routine basis. Updated searches and other services are available on request.

West Lafayette, Indiana  
October, 1981

C. Y. Ho  
Interim Director of CINDAS  
Purdue University

## ABSTRACT

This report presents comprehensive bibliographic information on the thermophysical and electronic (including electrical, magnetic, and optical) properties of 462 different foreign stainless steels. The steels included in the report are from Czechoslovakia, France, Germany, India, Italy, Japan, Poland, Romania, Sweden, The Netherlands, United Kingdom, USSR, and Yugoslavia. The bibliographic citations are indexed in depth. Concise instructions are also given so that the user can quickly make retrospective literature searches for specified foreign stainless steels and properties.

The thermophysical properties covered in this report are: thermal conductivity, thermal diffusivity, specific heat, thermal linear expansion, thermal volumetric expansion, viscosity, emittance, reflectance, and absorptance. The electronic properties covered are absorption coefficient, dielectric constant, energy gap, electrical resistivity, electron emission properties, magnetic hysteresis, magnetic susceptibility, magnetoelectric properties, magnetomechanical properties, photoelectric properties, refractive index, and work function.

## CONTENTS

	<u>Page</u>
PREFACE . . . . .	iii
ABSTRACT . . . . .	v
THE ORGANIZATION OF THE VOLUME . . . . .	1

## PART A. MATERIALS DIRECTORY

## MATERIALS DIRECTORY

(Organized by Country of Origin and Composition of Steels) . . . .	8
I. British Stainless Steels . . . . .	9
II. Czechoslovakian Stainless Steels . . . . .	10
III. Dutch Stainless Steels . . . . .	10
IV. French Stainless Steels . . . . .	10
V. German Stainless Steels . . . . .	10
VI. Indian Stainless Steels . . . . .	13
VII. Italian Stainless Steels . . . . .	13
VIII. Japanese Stainless Steels . . . . .	14
IX. Polish Stainless Steels . . . . .	15
X. Romanian Stainless Steels . . . . .	15
XI. Swedish Stainless Steels . . . . .	16
XII. USSR Stainless Steels . . . . .	16
XIII. Yugoslavian Stainless Steels . . . . .	20

## PART B. TECHNICAL CODING

## SEARCH PARAMETERS

(Ordered by Material Number) . . . . .	22
--	----

## PART C. BIBLIOGRAPHY

## BIBLIOGRAPHY ON THERMOPHYSICAL PROPERTIES

(With T Prefix) . . . . .	36
---------------------------	----

## BIBLIOGRAPHY ON ELECTRONIC PROPERTIES

(With E Prefix) . . . . .	55
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## THE ORGANIZATION OF THE VOLUME

One of the features of the TEPIAC Computerized Information Storage and Retrieval System is its ability to create research literature source books for selected groups of materials. This report presents such a source book for foreign stainless steels. Stainless steels included in this report are those iron alloys containing less than  $\geq 12$  wt.% chromium and less than 2 wt.% carbon. Those iron alloys containing  $\geq 12\%$  chromium with  $\geq 2\%$  carbon are included in its companion volume on nonstainless alloy steels carbon steels and cast irons.

The TEPIAC retrieval system is based on assigning a seven digit material number to each material, a one or two letter property code for each property and an accession number to each relevant research document. These three entities of material, property, and document are connected through a codification scheme which allows easy retrieval of information through the presentation described in this report.

This report is composed of three main parts which are: The Materials Directory, Technical Coding, and Bibliography.

In order to find the bibliographic citation for a material for given properties, the simple steps to be followed are as follows:

Find out the material number from the Materials Directory and the property code from the Search Parameters list. By scanning down the Technical Coding listing, one can find accession numbers assigned to the documents containing the desired codes. Finally, the search can be completed by going to the Bibliography to obtain the complete citation for each of the relevant accession number.

### MATERIALS DIRECTORY

This directory lists all the stainless steels from thirteen foreign countries. The number of steels from different countries for which thermo-physical and/or electronic properties are available are as follows:

<u>Country</u>	<u>Number of Materials</u>
Czechoslovakia	2
France	9
Germany	109
India	12
Italy	8
Japan	60

<u>Country</u>	<u>Number of Materials</u>
The Netherlands (Dutch)	1
Poland	9
Romania	1
Sweden	5
United Kingdom (British)	51
U.S.S.R.	190
Yugoslavia	5

The materials are listed under each country and within country the materials are arranged alphabetically according to their major components, e.g., Aluminum Steels, Chromium Steels, Nickel Steels, etc. Under these main groups, the materials are further arranged according to their compositions. Most of the materials have internationally accepted official or industrial designations such as GOST (Russian), BS/En (British), JIS, Remanit (German), etc. These designations follow the compositions. Each steel is assigned a unique seven-digit material number in the TEPIAC retrieval system. In addition to the steels with special designations there are a number of experimental steels also included in the materials directory. A material number is assigned to several of these experimental steels with identical composition irrespective of their national origin.

The following books/reports were found useful by CINDAS in the classification and identification of foreign steels:

1. Handbook of Soviet Alloy Composition, Metal and Ceramics Information Center, Columbus Ohio, MCIC-HB-05, 1980.
2. Properties of En Steels, Woolman, J. and Mottram, R.A. (British Iron and Steel Research Association) Pergamon Press, Vol. 1, 1964, Vol. 2, 1966, and Vol. 3, 1969.
3. Stahl-Eisen-Liste, Schmitz, H. (Union of German Metallurgists), Verlag Stahleisen M.B.H., Duesseldorf, West Germany, 1972.
4. Handbook of Comparative World Steel Standards, The International Technical Information Institute, Tokyo, Japan, 1974.
5. International Metallic Materials Cross Reference, Potts, D.L., Materials Information Services, General Electric Company, Schenectady, New York, 1979.

**TECHNICAL CODING**

Bibliographic searches can be made using the following search codes in conjunction with the seven-digit material numbers.

	<u>Code</u>
<b>A. <u>Property</u></b>	
1. Thermophysical Properties	
Absorptance	I
Emittance	G
Radiative Properties	R
Reflectance	H
Specific Heat	E
Thermal Conductivity	A
Thermal Diffusivity	D
Thermal Linear Expansion	N
Thermal Volumetric Expansion	O
Viscosity	F
2. Electronic Properties	
Absorption Coefficient	AS
Dielectric Constant	DC
Electron Emission Properties	EP
Electrical Resistivity	ER
Magnetic Hysteresis	MH
Magnetic Susceptibility/Curie Temperature	MS
Magnetomechanical Properties	MP
Photoelectronic Properties	PP
Refractive Index	RI
Work Function	WF
<b>B. <u>Physical States</u></b>	
Doped	D
Fibrous (Whisker)	F
Films (thick or thin)	T
Liquid	L
Solid	S
<b>C. <u>Subject Coverage</u></b>	
Data	D
Experimental	E
General (Data + Experimental + Theory)	G
Theory	T
<b>D. <u>Temperature Ranges</u></b>	
High (Above 1273 K)	H
Low (0 to 75 K)	L
Normal (above 75 to 1273 K)	N

CodeE. Languages

Czech	C
English	E
Dutch	D
French	F
German	G
Italian	I
Japanese	J
Polish	P
Russian	R
Other	O

In listing of entries according to the search parameters in the section for the technical coding, one will find first the property codes, followed by a seven-digit material number, codes for physical states (D, F, T, L, or S), subject coverage (D, E, G, or T), temperature range (H, L, or N), languages (C, D, E, F, G, I, J, P, R, or O), document accession number (with T or E prefixes), followed by the year of publication.

BIBLIOGRAPHY

There are 365 references for thermophysical properties (with the prefix T) and 65 references for the electronic properties (with the prefix E) listed numerically. Since this report is for foreign steels, the majority of the references cited here are in foreign languages. However, every attempt is made to give the source of the English translation whenever it is available.

Because of the wide variety of literature sources cited different formats for bibliographic citations are used in the Bibliography. In this connection a number of problems of general character are encountered. CINDAS procedures in coping with these problems are described below:

1. Titles reported in the Bibliography are taken either from an abstract or from the original work. In the case of translated titles, discrepancies may exist between various sources. In general, CINDAS makes no special effort to check the accuracy of titles.
2. The names of scientific and technical journals are normally abbreviated according to the guidelines of the Chemical Abstracts Service Source Index (CASSI). In cases where a journal name is not applicable, the name of the publisher, symposium, or disseminating agency is entered in place of the journal name, depending upon the reference work.

3. Key punching format limitations in the earlier citations necessitated the adoption of substitute representations for some of the symbols and alphabetic and numeric arrangements. The following are examples of substitute representations used in the Bibliography:

- a. Brackets [] are shown as // //.
- b. Parentheses () are shown as / /.
- c. Apostrophes are shown as #; e.g., Shul'ga is written as Shul#ga.

PART A  
MATERIALS DIRECTORY

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## MATERIALS DIRECTORY

(ORGANIZED BY COUNTRY OF ORIGIN AND COMPOSITION OF STEELS)

## I. BRITISH STAINLESS STEELS

	Material Number
12 Cr + 1 Mn / T12	322-0018
12 Cr + 2 Mn + 2 Ni / Jethete M 153	322-0542
12 Cr + 12 Ni	322-1136
12 Cr + 12 Ni	322-1187
12 Cr + 12 Ni / En 58D	322-1157
12 Cr + 16 Ni	355-0880
12 Cr + 16 Ni	355-0929
12 Cr + 20 Ni	355-0881
12 Cr + 20 Ni	355-0930
12 Cr + 0.8 V / H 46	322-0547
13 Cr / En 56B	322-1217
13 Cr + 13 Ni + 10 Co / G 18B	322-0248
13 Cr + 25 Ni + 3 W / G 17	355-0192
14 Cr + 1 Mn + 1 Ni / En 56	322-0942
14 Cr + 0.4 Ni / F H	322-0093
14 Cr + 18 Ni + 4 Mo / Rex 78	355-0191
15 Cr + 27 Ni + 3 W / Era A T V	355-0117
17 Cr / FI 17	322-0709
17 Cr + 5 Ni + 2 Mo / F V 520	322-0984
17 Cr + 9 Ni	322-1197
17 Cr + 9 Ni	322-1199
17 Cr + 11 Ni	322-1195
17 Cr + 20 Ni	355-0882
17 Cr + 20 Ni	355-0931
17 Cr + 37 Ni + 2 Si / Macloy G	355-0204
18 Cr + 8 Ni / En 58A	322-1156
18 Cr + 9 Ni / Staybrite	322-0112
18 Cr + 10 Ni / Staybrite F D P	322-1344
18 Cr + 10 Ni	322-1193
18 Cr + 10 Ni + 2 Mn / Staybrite E M S	322-1345
18 Cr + 12 Ni	322-1137
18 Cr + 12 Ni	322-1188
18 Cr + 14 Ni	322-1196
18 Cr + 16 Ni	322-1138
18 Cr + 16 Ni	322-1189
18 Cr + 37 Ni / Nimonic P E 7	355-0418
19 Cr + 8 Ni / En 58	322-0943
19 Cr + 11 Ni	322-1198
19 Cr + 14 Ni / R 20	322-0213
20 Cr + 2 Ni / H 29	322-0149
20 Cr + 10 Ni / En 58B	322-0715
20 Cr + 12 Ni / En 58C	322-0714
23 Cr + 11 Ni	322-1194



## I. BRITISH STAINLESS STEELS (continued)

		<u>Material Number</u>
24 Cr + 5 Ni + 3 Mo / H 48	. . . . .	322-0162
24 Cr + 12 Ni	. . . . .	322-1139
24 Cr + 12 Ni	. . . . .	322-1190
24 Cr + 20 Ni	. . . . .	322-1141
24 Cr + 20 Ni	. . . . .	322-1192
25 Cr + 16 Ni	. . . . .	322-1140
25 Cr + 16 Ni	. . . . .	322-1191

## II. CZECHOSLOVAKIAN STAINLESS STEELS

16 Cr + 10 Ni / 17242	. . . . .	322-1302
19 Cr + 10 Ni / 17246	. . . . .	322-1303

## III. DUTCH STAINLESS STEELS

26 Cr	. . . . .	322-0675
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## IV. FRENCH STAINLESS STEELS

15 Cr + 35 Ni / Alloy 35 Ni - 15 Cr	. . . . .	355-0227
17 Cr / Z 8 C 17	. . . . .	322-1417
18 Cr + 8 Ni	. . . . .	322-1147
18 Cr + 9 Ni / 18 - 8	. . . . .	322-0001
18 Cr + 10 Ni / NS 22S	. . . . .	322-0724
19 Cr + 22 Ni + 3 Mo / Durimet T	. . . . .	355-0228
20 Cr + 20 Co + 20 Ni / Multimet	. . . . .	322-0094
25 Cr / Dilver O	. . . . .	322-0679
28 Cr + 10 Ni	. . . . .	322-0344

## V. GERMAN STAINLESS STEELS

12 Cr + 0.7 Mn / X 18 Cr Mo Ni V Nb 12 1	. . . . .	322-1591
12 Cr + 1 Mo / X 20 Cr Mo V 12 1	. . . . .	322-0796
12 Cr + 0.2 Ni	. . . . .	322-0077
12 Cr + 12 Ni + 2 W	. . . . .	322-0535
13 Cr	. . . . .	322-0362
13 Cr + 1 Al	. . . . .	322-0771

## V. GERMAN STAINLESS STEELS (continued)

	Material Number
13 Cr + 0.6 C / M C C	322-0495
13 Cr + 2 Co	322-0088
13 Cr + 0.5 Mn	322-0086
13 Cr + 1 Mn	322-0807
13 Cr + 1 Mn / X 40 Cr 13	322-0931
13 Cr + 1 Mo / Remanit	322-0265
13 Cr + 12 Ni + 3 W	322-0080
13 Cr + 12 Ni + 10 W	322-0087
13 Cr + 13 Ni + 2 Si	322-0761
13 Cr + 13 Ni + 2 Si	355-0511
14 Cr	322-0096
14 Cr + 0.7 Ni	322-0091
15 Cr	322-0401
15 Cr + 7 Ni + 2 Mo	322-0765
16 Cr + 13 Ni + 11 Co	322-0781
16 Cr + 13 Ni / X 8 Cr Ni Mo V Nb 16 13	322-0799
16 Cr + 13 Ni / X 8 Cr Ni Nb 16 13	322-0797
16 Cr + 13 Ni	322-0778
16 Cr + 13 Ni + 2 Mn / X 8 Cr Ni 16 13	322-1399
16 Cr + 16 Ni + 2 Mo / X 8 Cr Ni Mo Nb 16 16	322-0726
16 Cr + 16 Ni + 3 W / X 6 Cr Ni W Nb 16 16	322-0993
16 Cr + 18 Ni / X 2 Ni Cr 18 16 (Remanit 4321)	355-1306
16 Cr + 24 Ni + 2 Ti	355-0516
16 Cr + 36 Ni	355-0513
16 Cr + 36 Ni + 2 Si / X 12 Ni Cr Si 36 16 (Thermax 4864)	355-0902
17 Cr	322-0402
17 Cr + 0.7 Mn	322-0763
17 Cr + 7 Ni + 1 Al	322-0766
17 Cr + 8 Ni / X 12 Cr Ni 17 7 (Remanit 4310)	322-1364
17 Cr + 9 Mn / X 3 Cr Mn Ni 18 9 (Remanit 4373)	322-1365
17 Cr + 11 Ni + 2 Mo	322-0782
17 Cr + 12 Ni + 2 Mn / V2 A	322-0786
17 Cr + 13 Ni + 1 Mn	322-0784
17 Cr + 16 Ni + 2 Mo / A T S 13	322-0779
17 Cr + 17 Ni + 2 Mo / X 8 Cr Ni Mo B Nb 16 16	322-1588
17 Cr + 21 Ni + 2 Mo / X 5 Cr Ni Mo Cu Nb 20 18 (Remanit 4505)	355-1307
17 Cr + 0.5 Si	322-0762
18 Cr + 1 Al	322-0772
18 Cr + 6 Ni + 4 Mn	322-0768
18 Cr + 8 Ni / X 10 Cr Ni 18 8	322-0120
18 Cr + 8 Ni / A T S	322-0888
18 Cr + 8 Ni + 1 Mn	322-0767
18 Cr + 8 Ni + 2 Mn / 18 - 8	322-0001
18 Cr + 8 Ni + 6 Mn / X 16 Cr Ni Mn 18 8 6	322-1152
18 Cr + 9 Ni + 0.5 Mn	322-0110
18 Cr + 9 Ni / X 12 Cr Ni S 18 8 (Remanit 4305)	322-1362
18 Cr + 9 Ni + 2 Mn / X 5 Cr Ni 18 9 (Remanit 4301)	322-0899

## V. GERMAN STAINLESS STEELS (continued)

	Material Number
18 Cr + 10 Ni / Remanit 1895	322-0727
18 Cr + 10 Ni + 2 Mn / X 10 Cr Ni Nb 18 9 (Remanit 4550)	322-1370
18 Cr + 10 Ni + 2 Mn / X 10 Cr Ni Ti 18 9 (Remanit 4541)	322-0371
18 Cr + 10 Ni + 2 Mn / X 12 CR Ni Ti 18 9	322-1586
18 Cr + 11 Ni	322-0775
18 Cr + 11 Ni + 2 Mn / X 2 Cr Ni N 18 11 (Amagnit 3945)	322-1358
18 Cr + 11 Ni + 2 Mn / X 6 Cr Ni 18 11	322-1398
18 Cr + 11 Ni + 2 Mo	322-0769
18 Cr + 12 Ni + 2 Mn / X 5 Ni Mo 18 10 (Remanit 4401)	322-1366
18 Cr + 12 Ni + 2 Mo / X 10 Cr Ni Mo Ti 18 10 (Remanit 4571)	322-0898
18 Cr + 13 Ni + 2 Mn / X 10 Cr Ni Mo Nb 18 10 (Remanit 4580)	322-1372
18 Cr + 13 Ni + 2 Mn / X 10 Cr Ni Mo Ti 18 12 (Remanit 4573)	322-1371
18 Cr + 13 Ni + 2 Mn / X 2 Cr Ni Mo 18 10 (Remanit 4404)	322-1367
18 Cr + 13 Ni + 3 Mo / X 5 Cr Ni Mo 18 12 (Remanit 4436)	322-1368
18 Cr + 14 Ni + 3 Mo / X 2 Cr Ni Mo 18 12	322-1622
18 Cr + 14 Ni + 3 Mo / X 4 Cr Ni Mo N 18 14 (Amagnit 3952)	322-1359
18 Cr + 16 Ni + 4 Mo / X 2 Cr Ni Mo 18 6 (Remanit 4438)	322-1369
19 Cr + 8 Ni	322-0536
19 Cr + 11 Ni + 2 Mn / X 2 Cr Ni 18 9 (Remanit 4306)	322-1363
19 Cr + 12 Ni	322-0783
19 Cr + 21 Ni + 20 Co	355-0517
19 Cr + 21 Ni + 20 Co + 4 W	355-0773
19 Cr + 21 Ni + 21 Co + 4 Mo	355-0772
20 Cr + 20 Co + 20 Ni / X 40 Co Cr Ni 20 20 (ATS 103)	320-0089
20 Cr + 26 Co	320-0022
20 Cr + 9 Ni	322-0147
20 Cr + 12 Ni + 2 Si	322-0776
20 Cr + 12 Ni + 2 Si / X 15 Cr Ni Si 20 12 (Thermax 4828)	322-1155
20 Cr + 13 Ni + 2 Si	322-0154
20 Cr + 16 Ni + 5 Mn / X 3 Cr Ni Mo Nb W 19 16 (Amagnit 3694)	322-1360
20 Cr + 32 Ni / Vacromium F	355-0219
21 Cr	322-0403
21 Cr + 11 Ni / C F 20	322-0311
21 Cr + 21 Ni + 20 Co / X 12 Cr Co Ni 21 20	322-1587
21 Cr + 35 Ni	355-0343
23 Cr + 10 Ni / Krupp V2 A	322-0158
23 Cr + 20 Ni	322-0156
24 Cr	322-0404
24 Cr + 17 Ni + 5 Mn / X 3 Cr Ni Mo Nb N 23 17 (Amagnit 3974)	322-1361
24 Cr + 20 Ni	322-0537
25 Cr + 13 Al	322-0773
25 Cr + 0.8 C	322-0534
25 Cr + 4.0 Ni	322-0166
25 Cr + 20 Ni	322-0476
25 Cr + 20 Ni + 2 Si	322-1153
25 Cr + 20 Ni + 2 Si	322-0777
25 Cr + 26 Ni + 2 Mo	355-0512

## V. GERMAN STAINLESS STEELS (continued)

	Material Number
26 Cr + 4 Ni	322-0774
26 Cr + 13 Ni / H H	322-0421
26 Cr + 20 Ni / H K	322-0423
27 Cr + 5 Ni + 2 Mo / X 8 Cr Ni Mo 27 5	322-0901
27 Cr + 8 Ni + 3 Mo / X 8 Cr Ni Mo Cu 27 8	322-0902
27 Cr + 18 Ni	322-0173
28 Cr + 2 Ni	322-0180
28 Cr + 10 Ni	322-0419
29 Cr + 0.6 Mn	322-0764
29 Cr + 10 Ni / X 10 Cr Ni 30 9	322-1300
Fe + Cr	322-0002

## VI. INDIAN STAINLESS STEELS

13 Cr + 6 Mn + N	322-1634
17 Cr + 12 Mn + N	322-1635
21 Cr + 13 Mn + N	322-1638
21 Cr + 15 Mn + N	322-1637
21 Cr + 20 Mn + N	322-1636
22 Cr + 18 Mn + N	322-1639
23 Cr + 15 Mn + N	322-1640
24 Cr + 13 Mn + N	322-1641
26 Cr + 20 Mn + N	322-1642
30 Cr + 5 Mn + N	322-1643
30 Cr + 11 Mn + N	322-1644
31 Cr + 6 Mn + N	322-1645

## VII. ITALIAN STAINLESS STEELS

12 Cr	322-0078
14 Cr	322-0096
14 Cr + 2 W	322-1434
18 Cr + 8 Ni / X 10 C N 1808	322-0916
18 Cr + 8 Ni / 18-8	322-0001
20 Cr	322-0150
23 Cr + 11 Ni	322-0157
24 Cr + 22 Ni	322-0163

## VIII. JAPANESE STAINLESS STEELS

	Material Number
12 Cr	322-0078
12 Cr + 10 Co + 7 W / D S F	322-0895
12 Cr + 7 W + 5 Co / D S E	322-0894
13 Cr + 13 Co	320-0099
13 Cr + 13 Co	322-0749
13 Cr + 16 Co	320-0094
13 Cr + 16 Co + 2 Mo	320-0095
13 Cr + 16 Co + 5 Mo	320-0097
13 Cr + 0.5 Ni	322-0306
13 Cr + 8 Ni + 2 Mo	322-0753
13 Cr + 8 Ni + 3 Mo	322-0752
13 Cr + 8 Ni + 5 Mo	322-0751
14 Cr	322-1395
14 Cr + 16 Co + 3 Mo	320-0096
14 Cr + 22 Co	320-0136
14 Cr + 0.3 Mn	322-0366
14 Cr + 27 Ni + 2 Si	355-0251
14 Cr + 0.8 Ni	322-1593
(14-26) Cr	322-1601
15 Cr	322-0401
16 Cr + 16 Co	322-0750
16 Cr + 16 Co	320-0101
16 Cr + 0.8 Si	322-1594
17 Cr + 5 Ni / 17-5	322-0747
17 Cr + 7 Ni / 17-7	322-0746
17 Cr + 9 Ni	322-0305
17 Cr + 13 Ni + 1 Mn	322-1351
17 Cr + 13 Ni + 3 Mo	322-1352
17 Cr + 0.6 Si	322-1377
18 Cr + 1 Mo	322-1599
18 Cr + 2 Mo	322-1600
18 Cr + 8 Ni	322-1147
18 Cr + 8 Ni + 2 Mn / 18-8	322-0001
18 Cr + 8 Ni + 0.5 Si	322-0367
18 Cr + 10 Ni / 18-10	322-0745
18 Cr + 0.5 Si	322-1595
19 Cr + 10 Ni + 2 Mn / SUS 27	322-1378
20 Cr + 0.8 Si	322-1596
20 Cr + 5 Ni / 20-5	322-0748
20 Cr + 26 Ni + 2 Mn	355-1293
20 Cr + 26 Ni + 5 Mo	355-1294
20 Cr + 30 Ni	355-1335
21 Cr + 20 Co + 20 Ni / LCN - 155	322-0990
21 Cr + 9 Ni	322-0234

## VIII. JAPANESE STAINLESS STEELS (continued)

	Material Number
23 Cr + 0.8 Si . . . . .	322-1597
25 Cr + 20 Ni . . . . .	322-0169
25 Cr + 35 Ni . . . . .	355-1336
26 Cr . . . . .	322-1598
28 Cr + 15 Co . . . . .	322-1204
28 Cr + 18 Co . . . . .	322-1203
28 Cr + 20 Co . . . . .	322-1205
28 Cr + 23 Co + 1 Si . . . . .	322-1612
(28-30) Cr + (15-20) Co . . . . .	322-1208
30 Cr + 15 Co . . . . .	322-1206
30 Cr + 20 Co . . . . .	322-1207
40 Cr + 0.4 Mn / C E 40 . . . . .	322-0921
45 Cr + 0.4 Mn / C E 45 . . . . .	322-0920
45 Cr + 1 Mo / C F M 45-1 . . . . .	322-0924
45 Cr + 2 Mo / C F M 45-2 . . . . .	322-0925
45 Cr + 0.6 Si / C F M 45-0.5 . . . . .	322-0923
45 Cr + 0.7 Si / C F M 45-0.2 . . . . .	322-0922

## IX. POLISH STAINLESS STEELS

15 Cr + 0.7 Si / L H 14 . . . . .	322-0918
16 Cr + 38 Ni + 3 W / A K R N Poldi . . . . .	355-0313
17 Cr + 5 Al / Baildona1 10 . . . . .	322-1573
17 Cr + 8 Ni / L H 17 N 8 . . . . .	322-0917
18 Cr + 9 Ni / 1 H 18 N9 . . . . .	322-0662
18 Cr + 10 Ni / 1 H 18 N9 T . . . . .	322-0919
20 Cr + 35 Ni . . . . .	355-1320
26 Cr + 0.7 Mn / L H 26 . . . . .	322-0946
28 Cr + 1.0 C / Z 1 Cr 28 . . . . .	322-0950

## X. ROMANIAN STAINLESS STEELS

18 Cr + 0.8 Si + 0.8 Ti / 7 T C 170 . . . . .	322-0850
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## XI. SWEDISH STAINLESS STEELS

	<u>Material Number</u>
20 Cr + 34 Ni / Sanicro 30 . . . . .	355-1562

## XII. USSR STAINLESS STEELS

12 Cr . . . . .	322-0078
12 Cr + 20 Mn . . . . .	345-0345
12 Cr + 7 Ni + 0.7 Al / 00 Kh 12 N7 Yu M . . . . .	322-1039
12 Cr + 8 Ni + 0.9 Al / 00 Kh 12 N8 Yu . . . . .	322-1040
12 Cr + 9 Ni + 0.9 Mo / 00 Kh 12 N9 M . . . . .	322-1041
12 Cr + 10 Ni / Kh 12 N 10 . . . . .	322-0868
12 Cr + 16 Ni + 4 Si / EI 850 . . . . .	355-0617
12 Cr + 23 Ni + 3 Ti / Kh 12 N22 T3 M R . . . . .	355-1263
12 Cr + 0.9 W / 15 Kh 12 V M F . . . . .	322-0521
13 Cr / Kh 13 . . . . .	322-0889
13 Cr / 3 Kh 13 . . . . .	322-0669
13 Cr / 2 Kh . . . . .	322-0512
13 Cr / 4 Kh 13 . . . . .	322-0561
13 Cr + 0.4 C . . . . .	322-0933
13 Cr + 5 Co / Kh 13 K 5 . . . . .	322-1145
13 Cr + 0.6 Mn / Kh 13 . . . . .	322-1623
13 Cr + 0.6 Mn / 1 Kh 13 . . . . .	322-1624
13 Cr + 0.6 Mn / E Zh 1 . . . . .	322-0099
13 Cr + 9 Mn + 8 Ni / 4 Kh 12 N8 G8 M F B . . . . .	322-0988
13 Cr + 8 Ni + 0.9 Al / Kh 13 N8 Yu . . . . .	322-0867
13 Cr + 13 Ni + 10 Co / Kh N10 K . . . . .	322-0644
13 Cr + 36 Ni + 3 Ti / N 36 Kh T (EI 702) . . . . .	355-0680
13 Cr + 2 Si / Kh 12 S Yu . . . . .	322-0935
14 Cr . . . . .	322-0096
(14-50) Cr . . . . .	322-1228
14 Cr / 12 Kh 14 . . . . .	322-1012
14 Cr + 2 Al / 0 Kh 13 S 2 Yu2 B T . . . . .	322-0939
14 Cr + 14 Mn + 3 Ni / Kh 14 G 14 N3 T . . . . .	322-1014
14 Cr + 3 Ni + 2 W / EI 736 . . . . .	322-0908
14 Cr + 13 Ni + 3 Si / W F 100 . . . . .	322-0247
14 Cr + 14 Ni + 2 W / 1 Kh 14 N14 V2 M (EI 257) . . . . .	322-0236
14 Cr + 14 Ni + 2 W / EI 69 . . . . .	322-0014
14 Cr + 16 Ni . . . . .	355-0997
14 Cr + 16 Ni + 1.0 Nb / EI 854 . . . . .	355-0615
14 Cr + 19 Ni + 3 Mo + 2 W . . . . .	355-0659
14 Cr + 19 Ni + 2 W / 1 Kh 14 N19 V3 B (EI 851) . . . . .	355-1218
14 Cr + 19 Ni + 2 W / 1 Kh 14 N18 V2 B R1 . . . . .	355-0658
14 Cr + 21 Ni . . . . .	355-0996
14 Cr + 26 Ni . . . . .	355-0995

## XII. USSR STAINLESS STEELS (continued)

	Material Number
15 Cr + 5 Al	322-0892
15 Cr + 5 Al + 0.5 Ca	322-0893
15 Cr + 0.3 C / 25 Kh 15	322-1592
15 Cr + 21 Mn	345-0346
15 Cr + 5 Ni + 2 Cu / Kh 15 N5 D2 T	322-1013
15 Cr + 8 Ni + 1.0 Al / Kh 15 N9 Yu	322-1059
15 Cr + 8 Ni + 2 Mo / Kh 15 N7 Yu M2	322-1058
15 Cr + 15 Ni + 3 Co / Kh 15 N15 K3 V M	322-0568
15 Cr + 24 Ni + 2 Ti / Kh 15 N24 T2	355-0570
15 Cr + 24 Ni + 5 W / EP 164	355-0911
15 Cr + 25 Ni	355-0384
15 Cr + 25 Ni	355-0387
15 Cr + 25 Ni / Kh 15 N25	355-0381
15 Cr + 25 Ni	355-0404
15 Cr + 25 Ni + 3 Mo	355-0407
15 Cr + 25 Ni + 3 Mo + 3 W	355-0390
15 Cr + 25 Ni + 3 W	355-0406
15 Cr + 25 Ni + 3 W / Kh 15 N25 M3 V3	355-0399
15 Cr + 25 Ni + 3 W / Kh 15 N25 M3 V3 T Yu	355-0388
15 Cr + 34 Ni + 3 W / Kh 15 N35 V M T	355-0223
15 Cr + 34 Ni + 3 W / Kh 15 N35 V2 M2 T R	355-0374
15 Cr + 36 Ni + 3 W / Kh N35 V K T	355-0482
15 Cr + 36 Ni + 3 W / Kh N35 V T (EI 612)	355-0481
15 Cr + 37 Ni	355-0008
15 Cr + 10 Nb + 5 Mo + 1 Al / 70 N Kh B M Yu	322-1354
16 Cr / 16 Kh V I (EP 638)	322-0941
16 Cr + 13 Mn / G 13 Kh 16	322-0971
16 Cr + 20 Al	304-0087
(16-50) Cr + 20 Al	322-1423
16 Cr + 2 Ni / EP 479	322-0674
16 Cr + 4 Ni / 1 Kh 16 N4 B	322-1326
16 Cr + 6 Ni / Kh 16 N6	322-1325
16 Cr + 7 Ni / S N 2 A (EP 288)	322-0927
16 Cr + 13 Ni + 2 Mo / 1 Kh 16 N13 M2 B	322-0569
16 Cr + 15 Ni + 3 Mo / 0 Kh 16 N15 M3 (EI 844)	322-0869
16 Cr + 15 Ni + 3 Mo / Kh 16 N15 M3 B (EI 847)	322-0870
16 Cr + 16 Ni + 2 W / 1 Kh 16 N16 V2 B R	322-1015
16 Cr + 16 Ni + 3 W / EI 714	355-0315
16 Cr + 25 Ni + 6 Mo / 1 Kh 16 N25 M6 (EI 395)	355-0373
16 Cr + 26 Ni + 7 Mo / Kh 16 N26 M7	355-0479
16 Cr + 37 Ni + 3 W / 0 Kh16 N36 V3 T	355-0328
(16-50) Cr + (5-50) Al	322-0944
16 Cr + 2 Nb / 1 Kh 16 S2 M B	322-0490
16 Cr + 1 Si + 0.6 Al / Kh 16 S Yu	322-0936
17 Cr	322-0402
17 Cr / Kh 17	322-0890
(17-50) Cr	322-1226
17 Cr + 1 Al / Kh 18 S Yu (EI 484)	322-0934



## XII. USSR STAINLESS STEELS (continued)

	Material Number
17 Cr + + 13 Ni + (0-9) Al	322-0904
17 Cr + 10 Mn / 1 Kh 17 A G 10	322-1011
17 Cr + 2 Ni	322-0959
17 Cr + 2 Ni	322-0958
17 Cr + 2 Ni / Kh 17 N2	322-0790
17 Cr + 4 Ni / 0 Kh 17 N4	322-0687
17 Cr + 7 Ni / 0 Kh 17 N7 Yu	322-0735
17 Cr + 7 Ni + 0.6 Al	322-0754
17 Cr + 10 Ni / 1 Kh 17 N 10 T	322-0957
17 Cr + 11 Ni	322-0872
17 Cr + 16 Ni / 0 Kh 17 N16	322-0907
17 Cr + 16 Ni + 3 Mo / 0 Kh 17 N16 M3 T	322-0884
(17-50) Cr + Ni + Mn	322-0806
18 Cr + 1 C / 9 Kh 18	322-0906
18 Cr + 9 Ni / 1 Kh 18 N9	322-0789
18 Cr + 8 Mn / 0 Kh 18 G8 N2 T	322-0966
18 Cr + 0.5 Mo / 11 Kh 18 M	322-1062
18 Cr + 3 Ni	322-0960
18 Cr + 3 Ni	322-0962
18 Cr + 8 Ni	322-1147
18 Cr + 8 Ni / 18-8	322-0001
18 Cr + 9 Ni / 2 Kh 18 N9 S	322-0991
18 Cr + 9 Ni / 1 Kh 18 N9	322-0789
18 Cr + 9 Ni + 2 Mo / EI 783	322-0728
18 Cr + 10 Ni	322-1018
18 Cr + 10 Ni	322-1019
18 Cr + 10 Ni	322-1020
18 Cr + 10 Ni	322-1021
18 Cr + 10 Ni / Kh 18 N9 L	322-1017
18 Cr + 10 Ni / Kh 18 N10 T	322-1025
18 Cr + 10 Ni / 12 Kh 18 N10 T	322-1134
18 Cr + 10 Ni / 1 Kh 18 N10 T	322-0670
18 Cr + 11 Ni / EI 849	322-0871
18 Cr + 12 Ni + 4 Si / EI 854	322-1009
18 Cr + 13 Ni + 2 Mn / EI 718	322-0486
18 Cr + 25 Ni / Kh 18 N25	355-0290
18 Cr + 25 Ni + 2 Si / Kh 18 N25 S2 (E Ya S3)	355-0106
18 Cr + 25 Ni + 3 Si	355-0208
18 Cr + 1 Ti / Kh 18 M T F	322-0891
19 Cr + 8 Ni	322-0312
19 Cr + 9 Ni	322-0129
19 Cr + 9 Ni / EI 606	322-0011
19 Cr + 10 Ni / 1 Kh 18 N9 T	322-0052
19 Cr + 10 Ni + 1 Mo / EI 572	322-0010
19 Cr + 16 Ni	322-1279
20 Cr	322-0150
20 Cr + 20 Al	304-0116

## XII. USSR STAINLESS STEELS (continued)

	Material Number
20 Cr + 10 Ni / Kh 20 N10	322-0805
20 Cr + 25 Ni	355-0505
21 Cr	322-0403
21 Cr + 8 Mn + 6 Ni / Kh 21 G7 A N5	322-0723
21 Cr + 5 Ni / 1 Kh 21 N5 T	322-0970
21 Cr + 12 Ni + 2 Si / Kh 20 N12 S2 (EI 211)	322-0696
21 Cr + 16 Ni + 8 Mn / 000 Kh 21 N16 A G8	322-1186
21 Cr + 1 Si / Kh 21 L	322-0808
22 Cr + 1 Ce	322-0809
22 Cr + 1.0 Si	322-0914
22 Cr + 20 Ni / Kh 22 N20	322-0734
23 Cr	322-1347
23 Cr + 3 Al / 3 Kh 23 Yu3 L	322-1393
23 Cr + 3 Al	322-1394
23 Cr + 13 Ni / Kh 23 N13	322-0983
23 Cr + 18 Ni / Kh 23 N18	322-0736
23 Cr + 18 Ni / Kh 23 N18 Ms B	322-0982
23 Cr + 18 Ni / Kh 23 N18 K B	322-0980
23 Cr + 18 Ni / Kh 23 N18 Ms Ts	322-0981
23 Cr + 28 Ni + 3 Cu / 0 Kh 23 N28 M3 D3 T (EI 943)	355-0522
24 Cr	322-0404
25 Cr / Kh 25	322-0965
(25-50) Cr	322-0167
25 Cr + 16 Ni + 6 Mn / Kh 25 N16 G7 A R (EI 835)	322-0926
25 Cr + 12 Ni / Kh 25 N12 A R	322-0785
25 Cr + 1 Si / Kh 25 T	322-0972
26 Cr	322-0675
26 Cr + 0.5 Al	322-0170
27 Cr	322-0175
27 Cr + 5 Al / 0 Kh 27 Yu 5 A (EI 626)	322-0912
28 Cr	322-0928
29 Cr	322-0181
30 Cr	322-0787
30 Cr / Zh 27	322-0556
30 Cr + 0.6 Al	322-0182
31 Cr + 0.6 Al	322-0184
32 Cr + 20 Al	322-0909
(33-35) Cr	322-0823
33 Cr + 20 Co	322-1221
(33-35) Cr + (0-5) Si	322-0822
35 Cr	322-1227

## XII. USSR STAINLESS STEELS (continued)

		<u>Material Number</u>
36 Cr + 16 Co	. . . . .	322-1220
36 Cr	. . . . .	322-1222
37 Cr + 0.7 Al	. . . . .	322-0189
38 Cr	. . . . .	322-1356
40 Cr	. . . . .	322-1223
40 Cr + 20 Al	. . . . .	322-1421
42 Cr	. . . . .	322-0207
43 Cr + 15 Al	. . . . .	322-1420
43 Cr	. . . . .	322-1224
45 Cr + 0.9 Al	. . . . .	322-0211
47 Cr + 5 Al	. . . . .	322-1419
48 Cr	. . . . .	322-1225
Cr	. . . . .	322-0394
Cr + Ni	. . . . .	322-0002

## XIII. YUGOSLAVIAN STAINLESS STEELS

13 Cr + 2 Mo	. . . . .	322-1647
13 Cr + 3 Mo	. . . . .	322-1648
13 Cr + 3 Mo + 3 Ni	. . . . .	322-1650
14 Cr + 4 Ni + 3 Mo	. . . . .	322-1649
18 Cr + (1-21) Ni	. . . . .	322-0903
18 Cr + 5 Ni	. . . . .	322-1633
18 Cr + 5 Ni	. . . . .	322-1632
18 Cr + 10 Ni	. . . . .	322-1631
18 Cr + 10 Ni	. . . . .	322-1630

PART B  
TECHNICAL CODING

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SEARCH PARAMETERS  
(ORDERED BY MATERIAL NUMBER)



TECHNICAL CODING  
SEARCH PARAMETERS ORDERED BY MATERIAL NUMBER

Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/EPIC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/EPIC Accession Number	Year
G	322-0052	S	C	N	R	T039236	1966	A	322-0112	S	C	G	E	T006247	1936
C	322-0052	S	C	N	R	T041003	1966	A	322-0112	S	C	G	E	T009151	1946
C	322-0052	S	C	N	R	T041881	1967	A	322-0112	S	C	G	E	T011299	1953
G	322-0052	S	C	N	R	T050002	1968	A	322-0112	S	C	G	E	T015145	1953
G	322-0052	S	C	N	R	T050521	1968	A	322-0112	S	C	G	E	T040164	1938
G	322-0052	S	C	N	R	T063497	1974	A	322-0112	S	C	G	E	T042776	1967
C	322-0052	S	C	N	R	T084497	1974	A	322-0112	S	C	G	E	T049745	1966
C	322-0052	S	C	N	R	T062650	1974	A	322-0112	S	C	G	E	T033173	1952
C	322-0052	S	C	N	R	T052550	1974								
I	322-0052	S	C	N	R	T043744	1962	A	322-0120	S	C	G	I	T036752	1951
I	322-0052	S	C	N	R	T046745	1965	A	322-0120	S	C	G	I	T046752	1951
N	322-0052	S	C	H	E	T052493	1964	A	322-0120	S	C	G	E	T009376	1942
N	322-0052	S	C	H	E	T052454	1964	A	322-0120	S	C	G	E	T025424	1959
N	322-0052	S	C	H	E	T058266	1969	A	322-0120	S	C	G	E	T046466	1965
N	322-0052	S	C	H	E	T059797	1968	E	322-0120	S	C	G	E	T046466	1965
N	322-0052	S	C	H	E	T059602	1968	N	322-0120	S	C	G	E	T046406	1965
N	322-0052	S	C	H	E	T059803	1968	R	322-0120	S	C	G	E	T037335	1947
N	322-0052	S	C	H	E	T084942	1974	A	322-0120	S	C	G	E	T024435	1953
N	322-0052	S	C	H	E	T084542	1974								
N	322-0052	S	C	H	E	T092059	1976	A	322-0129	S	C	G	E	T025154	1957
N	322-0052	S	C	H	E	T092059	1976								
N	322-0052	S	C	H	E	T092059	1976	A	322-0147	S	C	G	E	T006719	1938
N	322-0052	S	C	H	E	T092059	1976								
NF	322-0052	S	C	H	E	E066460	1974	A	322-0149	S	C	G	E	T000486	1954
NF	322-0052	S	C	H	E	E066460	1974								
NF	322-0052	S	C	H	E	E066461	1974	A	322-0150	S	C	G	E	T006752	1951
NF	322-0052	S	C	H	E	E066461	1974	A	322-0150	S	C	G	E	T006752	1951
								E	322-0150	S	C	G	E	T035615	1965
A	322-0077	S	C	G		T036719	1938	E	322-0150	S	C	G	E	T035615	1965
								E	322-0150	S	C	G	E	T039718	1965
A	322-0078	S	C	N	J	T016291	1925	E	322-0150	S	C	G	E	T039718	1965
AS	322-0078	S	C	N	J	E035436	1975								
AS	322-0078	S	C	N	J	E035437	1975	A	322-0154	S	C	G	E	T008319	1936
CC	322-0078	S	C	N	J	E035436	1975								
CC	322-0078	S	C	N	J	E035437	1975	A	322-0156	S	C	G	E	T006719	1938
F	322-0078	L	C	H	E	T002454	1947	A	322-0156	S	C	G	E	T008319	1936
F	322-0078	L	C	H	E	T005576	1967								
F	322-0078	L	C	H	E	T045576	1967	A	322-0157	S	C	G	E	T006523	1952
H	322-0078	S	C	N	J	T081232	1975								
H	322-0078	S	C	N	J	T081706	1975	A	322-0158	S	C	G	E	T001927	1947
N	322-0078	S	C	N	J	T057684	1924								
FP	322-0078	S	C	N	J	E095436	1975	A	322-0162	S	C	G	E	T000486	1954
FP	322-0078	S	C	N	J	E095437	1975								
R	322-0078	L	C	H	E	T004463	1947	A	322-0163	S	C	G	E	T006752	1951
RI	322-0078	S	C	N	J	E095436	1975	A	322-0163	S	C	G	E	T006752	1951
RI	322-0078	S	C	N	J	E095437	1975								
								A	322-0166	S	C	G	E	T008319	1936
A	322-0080	S	C	G		T008319	1936	F	322-0167	L	C	R	E	T003366	1947
A	322-0086	S	C	G		T006719	1938								
A	322-0086	S	C	G		T008319	1936	A	322-0169	S	C	G	E	T009376	1942
								A	322-0169	S	C	G	E	T009799	1979
A	322-0087	S	C	G		T008319	1936	A	322-0169	S	C	G	E	T009799	1979
A	322-0088	S	C	G		T008319	1936	F	322-0170	L	C	R	E	T003366	1947
A	322-0091	S	C	N	J	T016063	1953	A	322-0173	S	C	G	E	T006719	1938
								A	322-0173	S	C	G	E	T009369	1941
A	322-0093	S	C	G		T006247	1936	E	322-0173	S	C	G	E	T009369	1941
A	322-0093	S	C	G		T009351	1946								
A	322-0093	S	C	N	J	T011349	1953	A	322-0175	S	C	G	E	T009376	1942
A	322-0093	S	C	N	J	T015645	1949	A	322-0175	S	C	G	E	T008162	1978
A	322-0093	S	C	N	J	T040268	1938	C	322-0175	S	C	G	E	T008162	1978
								E	322-0175	S	C	G	E	T008162	1978
C	322-0094	S	C	N	J	T031957	1958	MP	322-0175	S	C	G	E	T008162	1978
								MP	322-0175	S	C	G	E	T008162	1978
A	322-0096	S	C	G		T006752	1951	N	322-0175	S	C	G	E	T008162	1978
A	322-0096	S	C	G		T015624	1929	A	322-0175	L	C	R	E	T004463	1947
MP	322-0096	S	C	N	J	E107558	1977								
PP	322-0096	S	C	N	J	E123638	1977	A	322-0180	S	C	G	E	T008319	1936
A	322-0099	S	C	N	J	T001646	1951	MP	322-0181	S	C	G	E	T007558	1977
A	322-0099	S	C	N	J	T001646	1951	MP	322-0181	S	C	G	E	T007558	1977
A	322-0099	S	C	N	J	T005646	1972	A	322-0181	L	C	R	E	T004463	1947
ER	322-0099	S	C	N	J	T003108	1951								
ER	322-0099	S	C	N	J	T003108	1951	F	322-0182	L	C	R	E	T003366	1947
A	322-0110	S	C	G		T006719	1938	F	322-0184	L	C	R	E	T003366	1947
A	322-0110	S	C	G		T006719	1938								

TECHNICAL CODING  
SEARCH PARAMETERS OBTAINED BY MATERIAL NUMBER

Property	Material Number	Phys. State	Subject	Temperature	Language	TPIC/EPIC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	TPIC/EPIC Accession Number	Year
F	322-0211	L	C		R	T013386	1947	A	322-0421	S	C	N	G	T024469	1961
A	322-0213	S	C	N	E	T011399	1953	N	322-0421	S	C	N	E	T046645	1950
A	322-0213	S	T	N	E	T025045	1952		322-0421	S	C	N	E	T013102	1965
A	322-0213	S	C	N	E	T015045	1952	A	322-0423	S	C	N	G	T024469	1961
A	322-0234	S	C	N	J	T010366	1936	N	322-0423	S	C	N	E	T046645	1950
E	322-0234	S	C	N	J	T010366	1936	A	322-0476	S	C	N	G	T024469	1961
A	322-0236	S	C	N	R	T025154	1957	A	322-0486	S	C	N	R	T025154	1956
A	322-0236	S	C	N	R	T031195	1955	E	322-0490	S	C	N	R	T024539	1961
E	322-0236	S	C	N	R	T017356	1959	E	322-0490	S	C	N	E	T025149	1961
E	322-0236	S	C	N	E	T021240	1959	E	322-0490	S	C	N	R	T035615	1965
A	322-0247	S	C	N	R	T010449	1938	E	322-0491	S	T	N	R	T035615	1965
A	322-0248	S	C	N	E	T011399	1953	E	322-0491	S	T	N	E	T035718	1965
A	322-0248	S	C	N	E	T025045	1952	E	322-0491	S	C	N	E	T035718	1965
A	322-0248	S	T	N	E	T025045	1952	R	322-0495	S	C	N	G	T020276	1933
A	322-0265	S	C	N	G	T016074	1960	A	322-0512	S	C	N	R	T017035	1959
A	322-0305	S	C	N	J	T014103	1936	A	322-0512	S	C	N	R	T031195	1955
A	322-0306	S	C	N	J	T014103	1936	A	322-0512	S	C	N	R	T043552	1954
A	322-0311	S	C	N	E	T020610	1964	A	322-0512	S	C	N	R	T043597	1954
A	322-0311	S	C	N	E	T024107	1959	A	322-0512	S	C	N	E	T070732	1973
A	322-0311	S	C	N	G	T004469	1961	C	322-0512	S	C	N	E	T070732	1973
E	322-0311	S	C	N	E	T020610	1964	E	322-0512	S	C	N	R	T017035	1959
E	322-0311	S	C	N	E	T024107	1959	E	322-0512	S	C	N	E	T025149	1961
A	322-0312	S	C	H	R	T016260	1935	E	322-0512	S	C	N	R	T025149	1961
E	322-0312	S	C	H	R	T016260	1935	E	322-0512	S	C	N	R	T025149	1961
E	322-0344	S	C	N	F	T016909	1951	E	322-0512	S	C	N	R	T025149	1961
A	322-0362	S	C		G	T008319	1936	E	322-0512	S	C	N	R	T025149	1961
N	322-0362	S	C	N	E	T007664	1924	E	322-0512	S	C	N	R	T025149	1961
A	322-0366	S	C	N	J	T023643	1935	E	322-0512	S	C	N	R	T025149	1961
A	322-0367	S	C	N	J	T013643	1935	E	322-0512	S	C	N	R	T025149	1961
A	322-0371	S	C	H	G	T017356	1962	E	322-0512	S	C	N	R	T025149	1961
A	322-0371	S	T	H	G	T017356	1962	E	322-0512	S	C	N	R	T025149	1961
G	322-0371	S	C	N	G	T013508	1977	E	322-0512	S	C	N	R	T025149	1961
MM	322-0371	S	C	N	G	E105146	1976	E	322-0512	S	C	N	R	T025149	1961
A	322-0394	S	C		E	T025256	1942	E	322-0512	S	C	N	R	T025149	1961
A	322-0394	S	T	N	F	T010441	1950	E	322-0512	S	C	N	R	T025149	1961
A	322-0394	S	C	N	R	T021042	1959	E	322-0512	S	C	N	R	T025149	1961
A	322-0394	S	C	N	E	T013457	1959	E	322-0512	S	C	N	R	T025149	1961
E	322-0394	S	T	N	E	T010441	1950	E	322-0512	S	C	N	R	T025149	1961
E	322-0394	S	T	L	E	T013386	1947	E	322-0512	S	C	N	R	T025149	1961
F	322-0394	L	C	H	I	T012404	1947	E	322-0512	S	C	N	R	T025149	1961
N	322-0394	S	C	N	E	T043535	1954	E	322-0512	S	C	N	R	T025149	1961
A	322-0401	S	C	N	G	T016260	1935	A	322-0547	S	C	N	E	T011399	1953
A	322-0401	S	C	N	G	T016260	1935	A	322-0547	S	T	N	E	T025149	1962
E	322-0401	S	C	H	E	T010754	1976	A	322-0547	S	C	N	E	T025149	1962
E	322-0401	S	C	N	E	T010754	1976	A	322-0556	S	J			T010124	1954
A	322-0402	S	C	N	G	T016260	1935	A	322-0556	S	C	N	R	T020347	1969
MM	322-0402	S	C	N	E	E107958	1977	E	322-0556	S	C	N	R	T020347	1969
MM	322-0402	S	C	N	E	E107958	1977	E	322-0556	S	C	N	R	T020347	1969
A	322-0403	S	C	N	G	T016260	1935	E	322-0556	S	C	N	R	T020347	1969
A	322-0403	S	C	N	G	T016260	1935	E	322-0556	S	C	N	R	T020347	1969
MF	322-0403	S	C	N	E	E107958	1977	E	322-0556	S	C	N	R	T020347	1969
MF	322-0403	S	C	N	E	E107958	1977	E	322-0556	S	C	N	R	T020347	1969
A	322-0404	S	C	N	G	T016260	1935	E	322-0556	S	C	N	R	T020347	1969
MP	322-0404	S	C	N	R	E107958	1977	E	322-0556	S	C	N	R	T020347	1969
MP	322-0404	S	C	N	R	E107958	1977	E	322-0556	S	C	N	R	T020347	1969
MS	322-0404	S	C	L	R	E107958	1977	E	322-0556	S	C	N	R	T020347	1969
MS	322-0404	S	C	L	R	E107958	1977	E	322-0556	S	C	N	R	T020347	1969
A	322-0419	S	C	N	G	T014469	1961	A	322-0561	S	C	N	R	T025149	1956
N	322-0419	S	C	N	E	T046645	1950	E	322-0561	S	C	N	R	T025149	1956



TECHNICAL CODING  
SEARCH PARAMETERS ORDERED BY MATERIAL NUMBER

Property	Material Number	Phys. State	Subject	Temperature	Language	TRC/EPIC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	TRC/EPIC Accession Number	Year
A	322-0569	S	C	N	R	T045154	1917	I	322-0715	S	O	N	E	TC42614	1965
A	322-0569	S	C	N	R	T025154	1917	A	322-0723	S	O	N	E	TC54143	1967
E	322-0662	S	C	L	E	T040419	1918	A	322-0723	S	O	N	E	TC45271	1971
G	322-0662	S	C	L	N	T012501	1970	A	322-0723	S	O	N	E	TC474139	1971
E	322-0669	S	C	N	A	T045615	1915	E	322-0723	S	O	L	E	TC42617	1967
E	322-0669	S	T	N	R	T045615	1915	E	322-0723	S	O	L	E	TC47148	1967
E	322-0669	S	T	N	R	T04718	1915	E	322-0723	S	O	N	E	TC56085	1973
E	322-0669	S	O	N	E	T039718	1915	N	322-0723	S	O	N	E	TC59796	1968
A	322-0670	S	O	L	R	T045420	1917	N	322-0723	S	O	N	E	TC59797	1968
A	322-0670	S	O	N	R	T053519	1918	A	322-0724	S	O	N	G	TC65082	1972
A	322-0670	S	O	N	E	T053910	1968	C	322-0724	S	O	N	E	TC46509	1967
A	322-0670	S	O	L	E	T041950	1967	N	322-0724	S	O	H	E	TC54475	1969
A	322-0670	S	O	H	R	T042347	1969	A	322-0726	S	O	N	G	TC35576	1965
A	322-0670	S	O	N	R	T045271	1971	A	322-0726	S	O	N	G	TC35577	1965
A	322-0670	S	O	N	A	T046318	1971	A	322-0726	S	O	N	E	TC46115	1966
A	322-0670	S	O	N	E	T047429	1971	A	322-0726	S	O	N	E	TC46116	1966
A	322-0670	S	O	N	R	T074135	1971	A	322-0726	S	O	N	G	TC55624	1969
A	322-0670	S	O	N	E	T074136	1971	A	322-0726	S	O	N	G	TC57454	1968
A	322-0670	S	O	N	E	T074135	1971	A	322-0726	S	O	N	G	TC58970	1970
A	322-0670	S	O	N	R	T074178	1973	C	322-0726	S	O	N	G	TC58970	1970
A	322-0670	S	O	N	R	T074175	1973	C	322-0726	S	O	N	G	TC54643	1969
A	322-0670	S	O	H	E	T074555	1973	C	322-0726	S	O	N	G	TC55624	1969
C	322-0670	S	O	H	R	T042347	1969	C	322-0726	S	O	N	G	TC57454	1968
F	322-0670	L	O	H	R	T043437	1969	E	322-0726	S	O	N	G	TC58970	1970
F	322-0670	L	O	H	R	T061068	1970	E	322-0726	S	O	N	G	TC55624	1969
F	322-0670	L	O	H	E	T062272	1969	N	322-0726	S	O	N	G	TC58970	1970
F	322-0670	L	O	H	E	T064145	1971	N	322-0726	S	O	N	G	TC55624	1969
F	322-0670	L	O	H	R	T066084	1971	N	322-0726	S	O	N	G	TC56970	1970
G	322-0670	S	O	N	R	T035477	1971	A	322-0727	S	O	N	G	TC46358	1968
G	322-0670	S	O	H	R	T044552	1967	A	322-0728	S	O	H	E	TC52493	1964
G	322-0670	S	O	H	E	T045327	1967	N	322-0728	S	O	H	E	TC54494	1964
G	322-0670	S	O	N	R	T053674	1968	A	322-0734	S	T	N	K	TC53276	1968
G	322-0670	S	O	N	E	T053910	1968	A	322-0734	S	T	N	R	TC53276	1968
C	322-0670	S	O	N	R	T071162	1973	A	322-0734	S	T	N	E	TC53119	1968
G	322-0670	S	O	N	E	T083671	1970	A	322-0734	S	O	N	E	TC53519	1968
H	322-0670	S	O	N	R	T032275	1970	A	322-0734	S	O	N	E	TC53519	1968
H	322-0670	S	O	N	E	T034206	1976	A	322-0735	S	O	N	R	TC53276	1968
I	322-0670	S	O	N	R	T038477	1971	A	322-0735	S	T	N	R	TC53276	1968
I	322-0670	S	O	N	R	T039163	1918	A	322-0735	S	T	N	F	TC53519	1968
PH	322-0670	S	O	N	E	E110917	1971	A	322-0735	S	O	N	E	TC53519	1968
PH	322-0670	S	O	N	E	E110918	1971	A	322-0736	S	T	N	R	TC53276	1968
N	322-0670	S	O	L	R	T072304	1973	A	322-0736	S	O	N	R	TC53276	1968
N	322-0670	S	O	N	R	T074135	1971	A	322-0736	S	T	N	E	TC53519	1968
N	322-0670	S	O	L	E	T074136	1971	A	322-0736	S	O	N	E	TC53519	1968
N	322-0670	S	O	L	E	T077222	1973	N	322-0736	S	O	N	R	TC75275	1973
A	322-0674	S	O	N	R	T042346	1918	N	322-0736	S	O	N	R	TC75275	1973
A	322-0674	S	O	N	E	T044276	1918	N	322-0745	S	O	N	J	TC53747	1968
E	322-0674	S	O	N	R	T044396	1918	N	322-0745	S	O	N	E	TC58235	1969
E	322-0674	S	O	N	E	T044276	1918	N	322-0746	S	O	N	J	TC53747	1968
N	322-0674	S	O	N	R	T044396	1918	R	322-0746	S	O	H	E	TC19724	1958
N	322-0674	S	O	N	E	T044276	1918	N	322-0747	S	O	N	J	TC53747	1968
A	322-0675	S	O	N	D	T047237	1917	N	322-0748	S	O	N	J	TC53747	1968
PH	322-0675	S	O	N	R	F117546	1977	E	322-0749	S	O	N	J	TC55666	1969
PH	322-0675	S	O	N	E	E110918	1977	E	322-0750	S	O	N	J	TC55666	1969
N	322-0675	S	O	N	E	T046390	1941	E	322-0751	S	O	N	J	TC55666	1969
N	322-0675	S	O	N	D	T047237	1917	E	322-0752	S	O	N	J	TC55666	1969
N	322-0675	S	O	N	E	T057698	1946	L	322-0753	S	O	N	J	TC55666	1969
N	322-0679	S	O	N	F	T033245	1912	A	322-0754	S	O	N	F	TC58740	1964
N	322-0679	S	O	N	E	T036043	1975	A	322-0754	S	O	N	R	TC58740	1964
N	322-0687	S	O	N	R	T048218	1917	E	322-0754	S	O	N	E	TC58740	1964
N	322-0687	S	O	N	E	T048219	1917	I	322-0754	S	O	N	E	TC58740	1964
A	322-0696	S	O	N	R	T042477	1915	N	322-0754	S	O	N	E	TC58740	1964
A	322-0696	S	O	N	R	T043552	1914	N	322-0754	S	O	N	E	TC58740	1964
A	322-0696	S	O	N	R	T043557	1914	N	322-0754	S	O	N	E	TC58740	1964
A	322-0709	S	O	N	E	T033243	1918	N	322-0754	S	O	N	E	TC58740	1964
E	322-0714	S	O	L	E	T040753	1911	N	322-0754	S	O	N	E	TC58740	1964
C	322-0715	S	O	N	E	T042115	1970	N	322-0754	S	O	N	E	TC58740	1964
E	322-0715	S	O	L	E	T048753	1911	N	322-0754	S	O	N	E	TC58740	1964

TECHNICAL CODING  
SEARCH PARAMETERS ORDERED BY MATERIAL NUMBER

Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/EPIC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/EPIC Accession Number	Year
N	322-L754	S	C	F	E	T060E43	1975	A	322-0786	S	G	H	G	T056E75	1965
A	322-L761	S	C	N	G	T035576	1965	C	322-0786	S	D	N	G	TL55023	1965
A	322-L761	S	C	N	G	T046015	1966	C	322-0786	S	D	N	G	T064980	1969
A	322-0762	S	C	N	G	T035576	1965	E	322-0786	S	D	N	G	T055L23	1969
A	322-0762	S	C	N	G	T046015	1966	MH	322-0787	S	D	N	P	E107558	1977
A	322-L763	S	D	N	G	T035576	1965	MH	322-0787	S	D	N	E	E123E38	1977
A	322-L763	S	D	N	E	T046015	1966	A	322-0789	S	D	N	R	T036083	1963
A	322-L764	S	D	N	G	T035576	1965	E	322-0789	S	D	N	P	TL36083	1963
A	322-L764	S	D	N	E	T046015	1966	A	322-0790	S	D	N	R	TC54527	1969
A	322-L765	S	C	N	G	T035576	1965	A	322-0790	S	D	N	E	TC63241	1965
A	322-L765	S	C	N	E	T046015	1966	N	322-0790	S	D	N	P	TC68899	1971
A	322-L766	S	C	N	G	T035576	1965	N	322-0790	S	D	N	P	T068899	1971
A	322-L766	S	C	N	E	T046015	1966	A	322-0796	S	D	N	G	TC58970	1970
A	322-L767	S	C	N	G	T035576	1965	D	322-0796	S	D	N	G	TC56970	1970
A	322-L767	S	C	N	E	T046015	1966	E	322-0796	S	D	N	G	TC58970	1970
A	322-L768	S	C	N	G	T035576	1965	N	322-0796	S	D	N	G	TC56970	1970
A	322-L768	S	C	N	E	T046015	1966	A	322-0797	S	D	N	G	TC58970	1970
A	322-L769	S	D	N	G	T035576	1965	C	322-0797	S	D	N	G	TC58970	1970
A	322-L769	S	C	N	E	T046015	1966	E	322-0797	S	D	N	G	TC56970	1970
A	322-L771	S	C	N	G	T035576	1965	N	322-0797	S	D	N	G	TC58970	1970
A	322-L771	S	C	N	E	T046015	1966	A	322-0799	S	D	N	G	TC58970	1970
A	322-L772	S	C	N	G	T035576	1965	C	322-0799	S	D	N	G	TC58970	1970
A	322-L772	S	C	N	E	T046015	1966	E	322-0799	S	D	N	G	TC58970	1970
A	322-L773	S	C	N	G	T035576	1965	N	322-0799	S	D	N	G	TC56970	1970
A	322-L773	S	C	N	E	T046015	1966	N	322-0805	S	D	N	R	TC55107	1969
A	322-L774	S	C	N	G	T035576	1965	N	322-0806	S	D	N	R	TC55107	1969
A	322-L774	S	C	N	E	T046015	1966	N	322-0807	S	C	H	G	TC59423	1970
A	322-L775	S	C	N	G	T035576	1965	A	322-0808	S	D	H	R	TC55832	1969
A	322-L775	S	C	N	E	T046015	1966	A	322-0808	S	D	N	R	TC60670	1969
A	322-L776	S	C	N	G	T035576	1965	A	322-0809	S	C	H	R	TC55832	1969
A	322-L776	S	C	N	E	T046015	1966	F	322-0822	L	C	H	R	TC49811	1968
A	322-L777	S	C	N	G	T035576	1965	F	322-0822	L	C	H	E	TC60325	1968
A	322-L777	S	C	N	E	T046015	1966	F	322-0823	L	C	H	R	TC49801	1968
A	322-L778	S	C	N	G	T035576	1965	F	322-0823	L	D	H	E	TC60325	1968
A	322-L778	S	C	N	E	T046015	1966	A	322-0854	S	C	N	O	T053132	1968
A	322-L779	S	C	N	G	T035576	1965	N	322-0854	S	D	N	O	TC53132	1968
A	322-L779	S	C	N	E	T046015	1966	E	322-0867	S	C	N	F	TC61846	1965
A	322-L781	S	C	N	G	T035576	1965	E	322-0867	S	L	N	E	TC61847	1965
A	322-L781	S	C	N	E	T046015	1966	N	322-0867	S	C	N	P	TC61846	1965
A	322-L782	S	C	N	G	T035576	1965	N	322-0867	S	C	N	E	TC61847	1965
A	322-L782	S	C	N	E	T046015	1966	E	322-0868	S	C	N	R	TC61846	1965
A	322-L783	S	C	N	G	T035576	1965	E	322-0868	S	D	N	E	TC61847	1969
A	322-L783	S	C	N	E	T046015	1966	A	322-0869	S	C	N	R	TC27623	1963
A	322-L784	S	C	N	G	T035576	1965	A	322-0869	S	C	N	E	TC59940	1963
A	322-L784	S	C	N	E	T046015	1966	ER	322-0869	S	C	N	R	E125432	1963
A	322-L785	S	C	N	G	T035576	1965	ER	322-0869	S	C	N	E	E125433	1963
A	322-L785	S	C	N	E	T046015	1966	F	322-0869	S	C	N	E	TC57134	1970
A	322-L786	S	C	N	G	T035576	1965	F	322-0869	L	C	H	E	TC57134	1970
A	322-L786	S	C	N	E	T046015	1966	N	322-0869	S	C	N	R	TC57134	1970
A	322-L787	S	C	N	G	T035576	1965	N	322-0869	S	C	N	F	TC60122	1962
A	322-L787	S	C	N	E	T046015	1966	A	322-0870	S	C	N	R	TC27623	1963
A	322-L788	S	C	N	G	T035576	1965	A	322-0870	S	C	N	L	TC49442	1963
A	322-L788	S	C	N	E	T046015	1966	ER	322-0870	S	C	N	R	E125432	1963
A	322-L789	S	C	N	G	T035576	1965	ER	322-0870	S	C	N	E	E125433	1963
A	322-L789	S	C	N	E	T046015	1966	N	322-0870	S	C	N	R	TC60122	1962
A	322-L790	S	C	N	G	T035576	1965	N	322-0870	S	C	N	F	TC60122	1962
A	322-L790	S	C	N	E	T046015	1966	A	322-0871	S	C	N	R	TC27623	1963
A	322-L791	S	C	N	G	T035576	1965	A	322-0871	S	C	N	E	TC59940	1963
A	322-L791	S	C	N	E	T046015	1966	ER	322-0871	S	C	N	R	E125432	1963
A	322-L792	S	C	N	G	T035576	1965	ER	322-0871	S	C	N	E	E125433	1963
A	322-L792	S	C	N	E	T046015	1966	N	322-0871	S	C	N	R	TC60122	1962

TECHNICAL CODING  
SEARCH PARAMETERS ORDERED BY MATERIAL NUMBER

Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/EPIC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/EPIC Accession Number	Year
N	322-0871	S	D	N	E	T060522	1962	Ex	322-0909	L	T	H	E	T060527	1972
N	322-0872	S	D	N	R	T060521	1962	Ex	322-0909	L	T	H	E	T060528	1972
N	322-0872	S	D	N	E	T060522	1962	Ex	322-0909	L	T	H	E	T060529	1972
F	322-0884	L	D	H	R	T055437	1969	G	322-0912	S	D	N	P	T060501	1972
F	322-0884	L	D	H	E	T062272	1969	G	322-0912	L	T	H	F	T072276	1973
F	322-0888	S	D	N	G	T055824	1969	G	322-0912	L	T	H	F	T072276	1973
C	322-0888	S	D	N	G	T055824	1969	G	322-0912	L	T	H	E	T072277	1973
C	322-0888	S	D	N	G	T055824	1969	G	322-0912	L	T	H	E	T072277	1973
N	322-0888	S	D	N	G	T055824	1969	A	322-0914	S	D	N	F	T060270	1969
C	322-0889	S	D	N	R	T087323	1976	G	322-0916	S	D	N	I	T055620	1969
E	322-0889	S	D	N	E	T090174	1976	N	322-0917	S	T	N	P	T064351	1971
E	322-0889	S	D	N	R	T050508	1963	N	322-0917	S	D	N	F	T064352	1971
N	322-0889	S	D	N	E	T063811	1971	G	322-0918	S	D	N	P	T068598	1972
E	322-0890	S	D	N	R	T074113	1970	N	322-0918	S	D	N	P	T064351	1971
E	322-0890	S	D	N	E	T074114	1970	N	322-0918	S	T	N	P	T064351	1971
N	322-0890	S	D	N	R	T050508	1963	G	322-0919	S	D	N	P	T063374	1970
N	322-0890	S	D	N	E	T063811	1971	G	322-0919	S	D	N	F	T063374	1970
F	322-0892	L	D	H	F	T058277	1968	N	322-0920	S	D	N	J	T041730	1966
F	322-0893	L	D	H	R	T058277	1968	N	322-0921	S	D	N	J	T041730	1966
E	322-0894	S	D	N	J	T034161	1964	N	322-0922	S	D	N	J	T041730	1966
N	322-0894	S	D	N	J	T034161	1964	H	322-0923	S	D	N	J	T041730	1966
E	322-0895	S	D	N	J	T034161	1964	H	322-0924	S	D	N	J	T041730	1966
N	322-0895	S	D	N	J	T034161	1964	N	322-0925	S	D	N	J	T041730	1966
A	322-0898	S	D	N	G	T064341	1971	A	322-0926	S	D	N	K	T065271	1971
PH	322-0898	S	D	N	G	E105146	1976	A	322-0926	S	D	N	F	T074139	1971
A	322-0899	S	D	N	G	T064341	1971	A	322-0926	S	D	N	F	T056515	1977
G	322-0899	S	D	N	E	T093538	1977	A	322-0926	S	D	N	H	T058515	1977
PH	322-0899	S	D	N	G	E105146	1976	N	322-0926	S	D	N	R	T098515	1977
A	322-0901	S	D	N	G	T064341	1971	N	322-0926	S	D	N	F	T098515	1977
A	322-0902	S	D	N	G	T064341	1971	A	322-0927	S	D	N	R	T065271	1971
A	322-0903	S	D	N	G	T064341	1971	A	322-0927	S	D	N	E	T074139	1971
N	322-0904	S	D	H	R	T064538	1967	N	322-0928	S	D	N	P	T062761	1971
A	322-0906	S	D	H	R	T061347	1969	A	322-0931	S	D	N	G	T046406	1965
C	322-0906	S	D	H	R	T061347	1969	E	322-0931	S	D	N	G	T046406	1965
N	322-0906	S	D	L	R	T072004	1974	N	322-0931	S	D	N	G	T046406	1965
N	322-0906	S	D	L	E	T077222	1973	N	322-0933	S	D	N	R	T069724	1934
N	322-0906	S	D	N	E	T090180	1973	N	322-0933	S	T	N	R	T069724	1934
N	322-0906	S	D	L	E	T090180	1973	N	322-0933	S	D	N	E	T066102	1972
A	322-0907	S	D	N	R	T074135	1971	A	322-0934	S	D	N	P	T066245	1972
A	322-0907	S	D	N	E	T074136	1971	A	322-0934	S	D	N	E	T069122	1972
EP	322-0907	S	D	N	E	E104917	1971	E	322-0934	S	D	N	E	T066245	1972
C	322-0907	S	T	N	R	E104917	1971	E	322-0934	S	D	N	E	T069122	1972
EN	322-0907	S	T	N	E	E104918	1971	ER	322-0934	S	D	N	R	E101537	1972
EN	322-0907	S	T	N	E	E104918	1971	ER	322-0934	S	D	N	E	E101537	1972
EN	322-0907	S	T	N	E	E104918	1971	E	322-0935	S	D	N	R	T066245	1972
PH	322-0907	S	T	N	E	E104917	1971	E	322-0935	S	D	N	E	T066245	1972
PH	322-0907	S	T	N	E	E104917	1971	A	322-0936	S	D	N	R	T066245	1972
PH	322-0907	S	T	N	E	E104917	1971	A	322-0936	S	D	N	E	T066245	1972
PH	322-0907	S	T	N	E	E104917	1971	EN	322-0936	S	D	N	K	E101537	1972
PH	322-0907	S	T	N	E	E104918	1971	EN	322-0936	S	D	N	E	E101537	1972
PH	322-0907	S	T	N	E	E104918	1971	A	322-0939	S	D	N	R	T066245	1972
N	322-0907	S	L	N	E	T074135	1971	A	322-0939	S	D	N	E	T066245	1972
N	322-0907	S	L	N	E	T074136	1971	ER	322-0939	S	D	N	K	E101537	1972
A	322-0909	S	D	H	R	T061347	1969	EN	322-0939	S	D	N	E	E101537	1972
F	322-0909	L	D	H	R	T061347	1969	A	322-0941	S	D	N	K	T074030	1971
F	322-0909	L	D	H	R	T061347	1969	EN	322-0941	S	T	N	E	T074030	1971
EN	322-0909	L	D	H	R	E104917	1971	EN	322-0941	S	T	N	R	E104903	1971



TECHNICAL CODING  
SEARCH PARAMETERS ORDERED BY MATERIAL NUMBER

Property	Material Number	Phys. State	Subject	Temperature	Language	IPAC/EPIC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	IPAC/EPIC Accession Number	Year	
EX	322-1041	S	C	N	R	E061424	1973	E	322-1191	S	D	L	E	T097123	1979	
EX	322-1041	S	C	N	R	E061424	1973									
MH	322-1041	S	L	N	E	E061424	1973	E	322-1192	S	D	L	E	T097123	1979	
MH	322-1041	S	L	N	E	E061424	1973									
EX	322-1058	S	C	N	R	E070501	1974	E	322-1193	S	D	L	E	T097123	1979	
MH	322-1058	S	C	N	E	E093240	1974	E	322-1194	S	L	L	E	T097123	1979	
EX	322-1059	S	C	N	R	E070501	1974	E	322-1195	S	D	L	E	T097123	1979	
MH	322-1059	S	C	N	E	E093240	1974									
EX	322-1060	S	C	N	R	E070501	1974	E	322-1196	S	D	L	E	T097123	1979	
MH	322-1060	S	C	N	E	E093240	1974	E	322-1197	S	D	L	E	T097123	1979	
EX	322-1062	S	C	N	R	E089345	1974	E	322-1198	S	D	L	E	T097123	1979	
EP	322-1062	S	T	N	E	E089345	1974									
EP	322-1062	S	C	N	E	E093245	1974	E	322-1199	S	D	L	E	T097123	1979	
EP	322-1062	S	T	N	E	E093245	1974									
A	322-1134	S	C	N	R	T089345	1976	MH	322-1203	S	D	N	J	E113652	1975	
A	322-1134	S	C	L	R	T089345	1976	MH	322-1204	S	C	N	J	E113652	1975	
A	322-1134	S	C	N	R	T089345	1976									
A	322-1134	S	C	L	R	T089345	1976	MH	322-1205	S	C	N	J	E113652	1975	
E	322-1135	S	C	L	E	T089345	1976	MH	322-1206	S	C	N	J	E113652	1975	
E	322-1135	S	C	N	E	T089345	1976									
E	322-1137	S	C	L	E	T089345	1976	MH	322-1207	S	C	N	J	E113652	1975	
E	322-1137	S	C	L	N	E	T089345	1976	MH	322-1208	S	C	N	J	E113652	1975
E	322-1139	S	C	L	E	T089345	1976	A	322-1217	S	C	N	R	T076360	1973	
E	322-1139	S	C	N	E	T089345	1976	A	322-1217	S	C	N	R	T076360	1973	
E	322-1139	S	C	L	E	T089345	1976	MH	322-1221	S	C	N	R	E111022	1977	
E	322-1139	S	C	L	N	E	T089345	1976	MH	322-1221	S	C	N	E	E123635	1977
E	322-1140	S	E	L	E	T089345	1976	MH	322-1222	S	D	N	R	E107558	1977	
E	322-1140	S	C	L	E	T089345	1976	MH	322-1222	S	C	N	E	E123635	1977	
E	322-1140	S	C	N	E	T089345	1976									
E	322-1140	S	E	N	E	T089345	1976	MH	322-1223	S	C	N	R	E107558	1977	
E	322-1141	S	C	N	E	T089345	1976	MH	322-1223	S	C	N	E	E123635	1977	
E	322-1141	S	C	L	E	T089345	1976	MP	322-1223	S	C	N	R	E107558	1977	
E	322-1141	S	C	L	E	T089345	1976	MP	322-1223	S	D	N	R	E123635	1977	
E	322-1145	S	C	N	R	T087423	1976	MH	322-1224	S	C	N	R	E107558	1977	
E	322-1145	S	C	N	E	T092074	1976	MH	322-1224	S	D	N	E	E123635	1977	
A	322-1147	S	C	N	J	T053139	1968	MH	322-1225	S	C	N	R	E107558	1977	
AS	322-1147	S	C	N	F	E112578	1976	MH	322-1225	S	C	N	E	E123635	1977	
C	322-1147	S	C	N	J	T053139	1968	MP	322-1225	S	C	N	R	E107558	1977	
E	322-1147	S	C	N	J	T053139	1968	MP	322-1225	S	C	N	E	E123635	1977	
E	322-1147	S	C	N	R	E125532	1968	PS	322-1225	S	D	L	R	E1077071	1976	
EX	322-1147	S	C	N	E	E125533	1968	NS	322-1225	S	C	L	E	E125411	1976	
MC	322-1147	S	C	L	E	E104574	1976									
C	322-1147	S	C	N	R	T071193	1973	MH	322-1226	S	C	N	R	E107558	1977	
C	322-1147	S	C	N	E	T096167	1973	MH	322-1226	S	D	N	E	E123635	1977	
C	322-1152	S	C	N	G	T030140	1961	MP	322-1227	S	C	N	R	E107558	1977	
C	322-1152	S	C	N	G	T036732	1963	MP	322-1227	S	C	N	E	E123635	1977	
MS	322-1153	S	C	N	G	E105146	1976	MP	322-1228	S	C	N	R	E107558	1977	
MS	322-1155	S	C	N	G	E105146	1976	MP	322-1228	S	C	N	E	E123635	1977	
A	322-1156	S	C	N	E	T084264	1950	ER	322-1279	S	C	L	R	E110444	1976	
N	322-1156	S	C	N	E	T084264	1950	ER	322-1279	S	D	L	E	E111585	1976	
A	322-1157	S	L	N	E	T084260	1950	MH	322-1279	S	C	L	R	E115632	1978	
N	322-1157	S	C	N	E	T084260	1950	MH	322-1279	S	D	L	E	E124010	1978	
E	322-1186	S	C	N	R	T096895	1973	M	322-1300	S	C	N	G	T091631	1977	
F	322-1187	S	C	L	E	T097123	1979	H	322-1300	S	D	N	F	T091631	1977	
E	322-1199	S	C	L	E	T097123	1979	A	322-1302	S	C	N	C	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	A	322-1302	S	D	L	C	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	E	322-1302	S	C	L	O	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	E	322-1302	S	C	N	O	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	A	322-1303	S	C	L	C	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	A	322-1303	S	C	L	O	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	E	322-1303	S	C	L	O	T090474	1977	
E	322-1199	S	C	L	E	T097123	1979	E	322-1303	S	C	N	O	T090474	1977	

# TECHNICAL CODING SEARCH PARAMETERS BY MATERIAL NUMBER

Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/IPC Accession Number	Year	Property	Material Number	Phys. State	Subject	Temperature	Language	TPRC/IPC Accession Number	Year
A	322-1325	S	C	L	R	T096515	1977	N	322-1394	S	C	N	R	T079286	1974
A	322-1325	S	C	N	R	T096515	1977								
E	322-1325	S	C	N	R	T096515	1977	N	322-1395	S	C	N	J	T081175	1970
E	322-1325	S	C	L	R	T096515	1977								
N	322-1325	S	C	L	R	T096515	1977	G	322-1398	S	C	N	E	T095583	1970
N	322-1325	S	C	N	R	T096515	1977								
A	322-1326	S	C	L	R	T096515	1977	G	322-1399	S	C	N	G	T095465	1970
A	322-1326	S	C	L	R	T096515	1977	G	322-1399	S	C	N	E	T095583	1970
N	322-1326	S	C	L	R	T096515	1977								
N	322-1326	S	C	L	R	T096515	1977	MH	322-1417	S	C	N	F	E108551	1977
A	322-1344	S	C	N	R	T094360	1970	EA	322-1419	L	C	H	P	E111534	1970
N	322-1344	S	C	N	R	T094360	1970	EA	322-1419	S	C	H	P	E111534	1970
								EA	322-1419	S	C	H	P	E111535	1970
A	322-1345	S	C	N	R	T094360	1970	EA	322-1419	L	C	H	P	E111535	1970
N	322-1345	S	C	N	R	T094360	1970								
AL	322-1347	S	C	N	R	E095436	1975	EA	322-1420	S	C	H	R	E101534	1970
AL	322-1347	S	C	N	R	E095437	1975	EA	322-1420	L	C	H	R	E101534	1970
AL	322-1347	S	C	N	R	E095436	1975	EA	322-1420	S	C	H	R	E101535	1970
AL	322-1347	S	C	N	R	E095437	1975	EA	322-1420	L	C	H	R	E101535	1970
H	322-1347	S	C	N	R	E095437	1975	EA	322-1421	S	C	H	P	E101534	1970
H	322-1347	S	C	N	R	E095437	1975	EA	322-1421	S	C	H	P	E101534	1970
AD	322-1347	S	C	N	R	E095436	1975	EA	322-1421	S	C	H	P	E101535	1970
AL	322-1347	S	C	N	R	E095437	1975	EA	322-1421	L	C	H	P	E101535	1970
AL	322-1347	S	C	N	R	E095436	1975								
AL	322-1347	S	C	N	R	E095437	1975	EA	322-1423	L	C	H	P	E111534	1970
AL	322-1347	S	C	N	R	E095436	1975	EA	322-1423	S	C	H	P	E101534	1970
AL	322-1347	S	C	N	R	E095437	1975	EA	322-1423	L	C	H	P	E101535	1970
AL	322-1347	S	C	N	R	E095436	1975	EA	322-1423	S	C	H	P	E101535	1970
AS	322-1351	T	L	N	J	E119518	1976								
AL	322-1351	T	L	N	J	E119518	1976	F	322-1434	L	C	H	I	T002454	1947
AS	322-1352	T	L	N	J	E119518	1976	G	322-1573	S	C	N	P	T099462	1978
AL	322-1352	T	L	N	J	E119518	1976	G	322-1573	S	C	H	P	T094662	1978
EA	322-1354	S	C	N	R	E104911	1970								
EA	322-1354	S	C	N	R	E104911	1970	L	322-1586	S	C	N	E	T100163	1975
EA	322-1354	S	C	N	R	E104912	1970								
EA	322-1354	S	C	N	R	E104912	1970	A	322-1587	S	C	N	G	T055424	1969
MS	322-1356	S	C	L	R	E107271	1976	E	322-1587	S	C	N	G	T055424	1969
MS	322-1356	S	C	L	R	E107271	1976	E	322-1587	S	C	N	G	T055424	1969
								N	322-1587	S	C	N	G	T055424	1969
MH	322-1358	S	C	N	G	E105146	1976	A	322-1588	S	C	N	G	T055424	1969
MH	322-1359	S	C	N	G	E105146	1976	G	322-1588	S	C	N	G	T055424	1969
MH	322-1360	S	C	N	G	E105146	1976	E	322-1588	S	C	N	G	T055424	1969
MH	322-1361	S	C	N	G	E105146	1976	E	322-1588	S	C	N	G	T055424	1969
MH	322-1362	S	C	N	G	E105146	1976								
MH	322-1363	S	C	N	G	E105146	1976	A	322-1591	S	C	N	G	T055424	1969
MH	322-1364	S	C	N	G	E105146	1976	E	322-1591	S	C	N	G	T055424	1969
MH	322-1365	S	C	N	G	E105146	1976	E	322-1591	S	C	N	G	T055424	1969
MH	322-1366	S	C	N	G	E105146	1976	N	322-1591	S	C	N	G	T055424	1969
MH	322-1367	S	C	N	G	E105146	1976								
MH	322-1368	S	C	N	G	E105146	1976	MH	322-1592	S	C	N	G	E107467	1976
MH	322-1369	S	C	N	G	E105146	1976	MH	322-1592	L	C	N	E	E110265	1976
MH	322-1370	S	C	N	G	E105146	1976								
MH	322-1371	S	C	N	G	E105146	1976	MH	322-1593	S	C	N	J	E111205	1977
MH	322-1372	S	C	N	G	E105146	1976	MH	322-1594	S	C	N	J	E111205	1977
F	322-1377	L	C	H	P	T076740	1971	MH	322-1595	S	C	N	J	E111205	1977
F	322-1378	L	C	H	P	T076740	1971	MH	322-1596	S	C	N	J	E111205	1977
N	322-1393	S	C	N	R	T079286	1974	MH	322-1597	S	C	N	J	E111205	1977
N	322-1394	S	C	N	R	T079286	1974	MH	322-1598	S	C	N	J	E111205	1977
								MH	322-1599	L	C	N	J	E111205	1977
								MH	322-1600	S	C	N	J	E111205	1977
								MH	322-1601	S	C	N	J	E111205	1977
								MH	322-1610	S	C	N	J	E110267	1976
								MH	322-1622	S	C	N		E102154	1973
								MH	322-1623	S	C	N	R	E102154	1973

[illegible]





PART C  
BIBLIOGRAPHY

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BIBLIOGRAPHY ON THERMOPHYSICAL PROPERTIES

(WITH T PREFIX)

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|--|---|
| TC03605<br>THERMAL CONDUCTIVITY OF TECHNICAL MATERIALS AT LOW TEMPERATURES.<br>ZAVENITSKII A V ZHELOVNIK A G<br>ZHUK TEKH FIZ<br>24 2032-6 1956 CA 51 8523<br>(FOR ENGLISH TRANSLATION SEE T7992)  | TC06247<br>THE THERMAL AND ELECTRICAL CONDUCTIVITIES OF METALS AND ALLOYS. II.-HIGH-TEMPERATURE INSTANT ALLOYS FROM 0 TO 900 C.<br>POWELL R W<br>PRAC PHYS SOC<br>48 3 381-392 1936 PA 3 201  |
| TC03045<br>HEAT CONDUCTIVITY OF STEELS<br>NEIMANA B E<br>TEKHOGENETIKA<br>2 9 22-6 1956 CA 50 7762   | TC06523<br>SOME REASONS FOR THE TOTAL EMISSIVITY OF METALS ARE POINTED OUT. THE VARIATION OF EMISSIVITY WITH TEMPERATURE.<br>JULY A A HANSEN J A WATERHOUSE R B<br>BRITISH JOURNAL OF APPLIED PHYSICS<br>3 97-101 1952 PH 9 207-P                   |
| TC03086<br>THERMAL CONDUCTIVITIES OF SOLID MATERIALS AT HIGH TEMPERATURES<br>POWELL R W<br>RESEARCH /LONDON/<br>7 492-521 1954 CA 49 7953  | TC06719<br>DIE WÄRMLEITFÄHIGKEIT VON TECHNISCHE REINEM EISEN UND VERSCHIEDENEN STAHLLEN.<br>EISENBERG, M. PUTZ, E.<br>ARCHIV EISENHÜTTEW<br>11 19 619-622 1938  |
| TC03075<br>HEAT CONDUCTIVITY OF STEELS AND A FEW OTHER METALS AT LOW TEMPERATURES<br>DE NOBEL J<br>PHYSICA<br>17 551-52 1951 CA 45 10169   | TC06744<br>AN INSTRUMENTAL APPARATUS FOR DETERMINING THE THERMAL CONDUCTIVITY OF FILMS UP TO 900 C.<br>FANDEL, G. HENRY, F. CHAUSSAIN, M.<br>METALLURGIE<br>2 403-409 1936 MA 3 502   |
| TC03124<br>DETERMINATION OF THE SPECIFIC HEAT AND THE HEAT CONDUCTIVITY OF METALS UNDER NORMAL CONDITIONS<br>HEMENDZI E YU<br>ZHUK TEKH FIZ<br>24 1428-40 1954 CA 49 15431   | TC06752<br>COEFFICIENTS OF THERMAL CONDUCTIVITY OF MATERIALS USED IN THE CONSTRUCTION OF HEAT-EXCHANGERS.<br>FELLE CARNE GIOSEFFE<br>CHIM E IND<br>33 1 11-15 1951 MA 20 392  |
| TC03646<br>TEMPERATURE DEPENDENCE OF THE THERMAL AND ELECTRICAL CONDUCTIVITIES OF STEELS AND FERROUS MAHD ALLOYS.<br>MIRYUKOV, V. E.<br>VESTNIK MOSKOV. UNIV., SER. FIZ.-MAT. ESTEST. NAUK A (15), 29-43, 1951.<br>(FOR ENGLISH TRANSLATION SEE T6046) | TC07208<br>EXPERIMENTS USING A SIMPLE THERMAL COMPANATOR FOR MEASUREMENT OF THERMAL CONDUCTIVITY, SURFACE RESISTANCE AND THICKNESS OF FILMS OR OF SURFACE DEPOSITS.<br>POWELL R W<br>JOURNAL OF SCIENTIFIC INSTRUMENTS<br>34 445-452 1957 BR 7 5952 |
| TC03927<br>PRESSURE DEPENDENCE OF THE COEFFICIENT OF HEAT CONDUCTIVITY FOR THE GASES HELIUM AND HYDROGEN AT LOW TEMPERATURES<br>JORDINK J B<br>PHYSICA<br>13 659-68 1947 CA 42 6188  | TC07395<br>CO-HEAT MAJOR METAL--TITANIUM.<br>AUTHOR ANON.<br>PRODUCT ENGINEERING<br>26 129-152, 1949.   |
| TC03454<br>DENSITY AND VISCOSITY OF SLAG AND METAL BATH IN THE SYSTEM IRON-TUNGSTEN-CHROMIUM<br>LUSANA L<br>MET ITAL<br>39 5-11 1947 CA 42 2564  | TC08212<br>THERMAL CONDUCTIVITY OF TECHNICAL ALLOYS AT LOW TEMPERATURES.<br>ZLOMITSYN S. SAVELEV I V<br>ZHUK TEKH FIZIKI<br>9 9 835-847 1939 MA 11 147  |
| TC03386<br>INVESTIGATION OF THE VISCOSITY OF ALLOYS OF IRON AND CHROMIUM IN THE RANGE OF PARACHROME<br>KOROTKOV A N TRONOVA M YA<br>DOKLADY AKAU NAUK USSR<br>57 653-6 1947 CA 44 8304   | TC08319<br>WÄRMLEITFÄHIGKEIT VON CHROMHALTIGEN STAHLLEN BEI NIEDRIGEN TEMPERATUREN.<br>MAUER EDUARD<br>ARCH EISENHÜTTEW<br>10 4 145-154 1936  |
| TC03735<br>REFLECTIVITY OF STEEL<br>HILL M<br>NATURE<br>159 305 1947 CA 41 3698  | TC08653<br>GAS TURBINE SE-UGL OF STEEL UNDER HIGH-TEMPERATURE CONDITIONS.<br>HILL, C. C.<br>IRON AND STEEL<br>14 485-7 1946 CA 40 7126<br>15 499-501 505 1946 CA 40 7126  |
| TC04457<br>EMISSIVITY OF MOLTEN IRON AND STEEL<br>KNOWLES D. SERJANT R J<br>J IRON STEEL INST /LONDON/<br>155 477-92 1947 CA 42 81   | TC08861<br>HEAT CONDUCTIVITY OF SOME HEAT-RESISTANT STEELS AS A FUNCTION OF THE STATE AND OF THEIR THERMAL TREATMENT.<br>KALITZMANOVSKI R E<br>TEKHOGENETIKA<br>5 1 44-8 1954 CA 52 7069  |
| TC05258<br>THERMAL CONDUCTIVITY OF SOME INDUSTRIAL MATERIALS<br>JIFFITHS, E. POWELL, R. W. HICKMAN, M. J.<br>J INST FUEL<br>15 107-20 1942 CA 36 6579  | TC09351<br>THE PHYSICAL PROPERTIES OF A SERIES OF STEELS. PART II.<br>POWELL R W HICKMAN M J<br>J IRON STEEL INST /LONDON/<br>154 114-121 1946  |
| TC05644<br>VISCOSITY OF MOLTEN STEEL.<br>KOROTKOVSKI, A. G. KHAMMETZANOV, K. G.<br>METALLURGI, A. G. SMOLENOV, P. I.<br>DOKL. AKAU MOSK. UNIV.<br>74 145-56 1944 CA 39 2953  |   |

- T009369  
THE THERMAL AND ELECTRICAL PROPERTIES OF IRON AND STEEL. RECENT INVESTIGATIONS.  
DONALDSON J W  
J WEST SCOT IRON STEEL INST  
48 92-97 1941
- T009376  
ALLOY STEELS FOR HIGH TEMPERATURE SERVICE. II. THEIR PROPERTIES COMPARED.  
MILLER R P SMITH G V JENNINGS P A  
METALS AND ALLOYS  
16 881-5 1942
- T009992  
THERMAL CONDUCTIVITY OF TECHNICAL MATERIALS AT LOW TEMPERATURES.  
ZAVARITSKII, N. V. ZELLEVICH, A. G.  
SOV. PHYS. TECH. PHYS.  
1, 1971-74, 1956.  
( ENGLISH TRANSLATION OF ZHUR. TEKH. FIZ., 26 ( 9 ), 231-6, 1956; FOR ORIGINAL SEE T0005 )
- T010366  
A MEASUREMENT OF THE THERMAL CONDUCTIVITY OF STEEL, CAST IRON, BRASS AT HIGH TEMPERATURES, AND A NEW PROPOSAL FOR THE THEORY OF BLUE-SHORTNESS OF METAL.  
TADOKORO, Y.  
J IRON STEEL INST /JAPAN/  
22 339-424 1936
- T010441  
THE NEW METALS - MOLYBDENUM, TITANIUM AND ZIRCONIUM.  
AUTHOR ANON.  
WELDING J.  
29, 324-2, 1950.
- T010449  
MEASURING THERMAL CONDUCTIVITY OF STEEL.  
BEZDUCHOVA M F  
ZAVODSKAYA LAB  
5 856-50 1936 CA 30 7520
- T011395  
PHYSICAL CONSTANTS OF SOME COMMERCIAL STEELS AT ELEVATED TEMPERATURES.  
BRIT. IRON AND STEEL RESEARCH ASSOC. EDITORS  
PHYSICAL CONSTANTS OF SOME COMMERCIAL STEELS AT ELEVATED TEMPERATURES  
1-33 1953
- T012285  
AN INVESTIGATION OF AIRCRAFT HEATERS. XV. THE EMISSIVITY OF SEVERAL MATERIALS.  
BUCKLER L M K BRUMBERG R GIER J T  
NAT ADVISORY COM AERO REPT  
1-13, 1947.  
( NACA-R-119 )
- T013102  
THE LIQUIDUS-SOLIDUS TEMPERATURES AND EMISSIVITIES OF SOME COMMERCIAL HEAT RESISTANT ALLOYS.  
GOM JAMES T BRASUNAS ANTON DE S HARPER OSCAR E  
METALS TECHNOLOGY  
12 TP 1838 1-18 1945 RM 2 4-56
- T014103  
THE THERMAL CONDUCTIVITY OF SPECIAL STEEL.  
KIKUTA, T.  
TETSU-TO-HAGANE  
24 524-8 1938 CA 33 4931
- T014276  
INDUSTRIAL INSTRUMENTS FOR DETERMINATION OF THERMAL CONDUCTIVITY OF METALS UP TO 900 DEGREES.  
RABUEL, G. HENRY, P. CHAUSSEAIN, M.  
REV MET  
33 602-8 1936 CA 31 1746  
( SEE ALSO T6744 )
- T015240  
PERFECTION OF SIMULTANEOUS DETERMINATION OF HEAT TRANSFER AND CONDUCTIVITY OF STEEL.  
KAZHYZHANOVSKII R E  
ZAVODSKAYA LABORATORIA  
23 925-7 1957 MR 31 52-F  
( FOR ENGLISH TRANSLATION SEE T15565 )
- T014457  
THE HEAT CONDUCTIVITY OF SOLID HEAT INSULATIONS.  
PROKOLITSEV M S  
J APPL PHYS  
4 613-17 1934 CA 29 775L
- T015546  
METHOD FOR THE SIMULTANEOUS DETERMINATION OF THE THERMAL AND ELECTRIC CONDUCTIVITY OF STEELS.  
KAZHYZHANOVSKII, R. E.  
U.S. ATOMIC ENERGY COMMISSION, WASHINGTON, D. C.  
1-4 1959  
( ENGLISH TRANSLATION OF ZAVOL. SKAYA LAB. 23 B, 944-7, 1957; FOR ORIGINAL SEE T15240 )  
( AEC-IR-3613 )
- T015633  
HIGH ALLOY STEELS FOR USE AS A THERMAL CONDUCTIVITY STANDARD.  
FORRELL R W TYE R P  
BRITISH JOURNAL OF APPLIED PHYSICS  
11 195-M 1960 RM 17 256-P
- T015645  
SECOND REPORT OF SUBCOMMITTEE A. THERMAL TREATMENT PART 4. SURVEY OF EXISTING DATA ON THERMAL AND ELECTRICAL CONDUCTIVITIES OF IRON AND STEELS.  
FORRELL R W  
IRON STEEL INST /LONDON/ SPEC REPT  
24 253-65 1939
- T016063  
MEASUREMENT OF THE THERMAL- AND TEMPERATURE CONDUCTIVITY OF METALS.  
HODG, G. T.  
MITT INST THERMODYNAMIK U VERKEHRUNGSPOTORENBAU  
14 1-87 1953
- T016073  
A NEW APPARATUS FOR MEASURING THE THERMAL CONDUCTIVITIES OF METALS.  
RODE K H FRITZ W  
Z ANGEW PHYS  
10 10 470-9 1958 CA 53 775
- T016074  
A SIMPLE METHOD FOR MEASURING RELATIVELY THE THERMAL CONDUCTIVITY OF SMALL METAL SAMPLES.  
FRITZ A RODE K H  
Z ANGEW PHYS  
12 3 121-4 1960 CA 54 11681
- T016204  
LORENZ CONSTANT FOR STEEL.  
MORGAN P G  
IRON AND STEEL  
33 28-30 1960 RM 17 88-P
- T016224  
PHYSICAL PROPERTIES OF PURE CHROMIUM AND TUNGSTEN STEELS.  
STABLEIN, F.  
A-CH EISENHUTTENH  
3 4 301-5 1924 CA 24 810
- T016260  
HEATING STEEL ALLOYS.  
TAITZ H YU  
GOMEZ  
7 41-60 1935
- T016291  
THERMAL CONDUCTIVITY OF IRON AND STEEL.  
MADEU H  
J IRON STEEL INST /JAPAN/  
11 571-7 1925
- T016983  
PHYSICAL PROPERTIES OF NICKEL AND ITS ALLOYS.  
GUILLAUMIN J R  
REV NICKEL  
17 4 85-101 1951 MA 19 644
- T017034  
DETERMINATION OF THE COEFFICIENTS OF THERMAL CONDUCTIVITY OF STEELS ON HEATING IN MOLTEN SALTS.  
LUDIN D V SUKHANOV E L  
NAUCH DOKLADY VYSSEI SHKOLY PET  
2 94-102 1959 CA 54 16329
- T017197  
HEAT-RESISTANT NICKEL-BASE ALLOY/ KHIENSSVNT  
ASTRON ARK.  
METALLOFIZICHESKAYA LABORATORIA METALLOV  
( 1 ), 11-4, 1956.  
( FOR ENGLISH TRANSLATION SEE T21554 )

- T017856  
DETERMINATION OF TRUE HEAT CAPACITY OF HEAT-RESISTING STEELS.  
LYUSTERNIK V E  
FIZ METAL I METALLOVED AKAD NAUK SSSR  
7 363-6 1959 CA 54 8537  
( FOR ENGLISH TRANSLATION SEE T21240 )
- T018087  
THERMAL AND ELECTRICAL CONDUCTIVITIES OF METALS AND ALLOYS AT LOW TEMPERATURES. IV. SOME HEAT RESISTANT ALLOYS.  
AOYAMA, S. ITO, T.  
NIPPON KINZOKU GAKKAI-SI  
4 40-2 1940 CA 36 5742
- T019036  
HEAT CAPACITY OF METALS.  
ANDRIANOVA T N  
NAUCH ODKLADY VYSSHEI SHKOLY ENERGET  
1 149-57 1959 CA 53 21516
- T019074  
WORKABILITY OF HEAT-RESISTANT ALLOYS.  
GOLUBEV, S. A.  
DURABETKA ZHARDPROCH. SPLAVCV, AKAD. NAUK SSSR, INST. MASHINOVED.  
226-30 1960 CA 54 18281
- T019328  
AUTOMATIC CALORIMETER FOR DETERMINATION OF THERMODYNAMIC PROPERTIES OF HEAT-RESISTANT STEELS.  
LYUSTERNIK V E  
PRISORY I TEKH EKSPERIMENTA  
4 127-9 1959 CA 54 7251  
( FOR ENGLISH TRANSLATION SEE T27827 )
- T019724  
COMPARISON OF TOTAL EMITTANCES WITH VALUES COMPUTED FROM SPECTRAL MEASUREMENTS.  
BEVANS J T GIER J T DUNKEL R V  
TRANS ASME  
80 1405-16 1958 CA 52 21151
- T021371  
METALS FOR SHORT TIME SERVICE AT HIGH TEMPERATURES.  
LEVY, A.  
MATERIALS AND METHODS  
42 117-32 1955
- T021376  
CONTRIBUTION TO THE DETERMINATION OF THE REFLECTIVITY OF METALS IN THE VISIBLE AND ULTRAVIOLET LIGHT.  
VON FRAGSTEIN KONRAD  
ANN PHYSIK  
17 1-21 1933
- T021610  
PROPERTIES OF SOME METALS AND ALLOYS.  
INTERNATIONAL NICKEL COMPANY INC., N. Y.  
THE INTERNATIONAL NICKEL CO., INC.  
30PP., 1960.
- T021976  
TEMPERING PROCESS IN GAMMA-TYPE HEAT-RESISTING ALLOYS. PT. 1. CHANGE IN PHYSICAL PROPERTIES DURING TEMPERING OF GAMMA FE-CO-CR-NI BASE HEAT RESISTING ALLOY, LON-155.  
IMAI, Y. MASUMOTO, T.  
TETSU-TO-MAGANE  
67 139-45 1961 RM 18 245-A
- T021240  
THE MEASUREMENT OF THE TRUE THERMAL CAPACITY OF HEAT-RESISTING STEELS.  
LYUSTERNIK V E  
PHYS METALS METALLOG /USSR/  
7 3 40-3 1959  
( ENGLISH TRANSLATION OF FIZ. METAL. I METALLOVED. 7 ( 3 ), 363-6, 1959; FOR ORIGINAL SEE T17856 )
- T021262  
RELATION BETWEEN THE ELECTRON AND PHONON PARTS OF HEAT CONDUCTIVITY IN STEELS.  
KAZHIZHANOVSKII R E  
ZHU. IZM FIZ  
29 439-45 1959 CA 54 10469  
( FOR ENGLISH TRANSLATION SEE T23487 )
- T021454  
KNIZHNOVMT /EIL92/ HOT-STRENGTH STEEL DATA SHEET SUPPLEMENT NO. 1.  
AUTHOR ANON.  
METAL. SCI. AND HEAT TREATMENT  
( 1 ), 67-74, 1960.  
( ENGLISH TRANSLATION OF METALLOVED. I TERM. OPAKOVKA METALLOV. ( 1 ), 61-4, 1960; FOR ORIGINAL SEE T17197 )
- T022673  
HEAT TRANSFER AND THERMODYNAMIC MODELING.  
NIKOLAIKII, N. A.  
TEPLOPEREDACHA I TEPLD. MODEL.  
41APP., 1959.  
( FOR ENGLISH TRANSLATION SEE T22674 )
- T022674  
NEW METHOD FOR DETERMINING THE HEAT CONDUCTIVITY OF MOLTEN METALS /METHOD OF SUCCESSIVE STEADY STATES/.  
NIKOLEKIN N A  
U S ARMY ENGR. RES. CIV. LABS., FT. BELVOIR, VA.  
72-87, 1960.  
( ENGLISH TRANSLATION OF TEPLOPROVEDACHA I TEPLD. MODEL. MODELPOVANIYE, 1959; FOR ORIGINAL SEE T22673 )  
( MCL-222 ( V ), AG-281770 )
- T023267  
RADIATION METHOD FOR TEMPERATURE MEASUREMENT OF METALLIC SURFACES IN THE 100-900 DEGREE RANGE.  
KULNAYA A I ROSTREM Z G  
TRUDY VSESUYUZ NAUCH-ISSLEDJOVATEL INST METRCL  
35 95-107 1956 CA 55 5055
- T023487  
THE RATIO OF THE ELECTRON AND PHONON PARTS OF THE THERMAL CONDUCTIVITY IN STEELS.  
KAZHIZHANOVSKII R E  
SOVIET PHYSICS-TECHNICAL PHYSICS /NEW YORK/  
4 481-6 1959 SA 63 7861  
( ENGLISH TRANSLATION OF ZH. TEKH. FIZ. 29 ( 4 ), 539-45, 1959; FOR ORIGINAL SEE T21262 )
- T023596  
AUSTENITIC HEAT RESISTING FOLDI AKNM STEEL.  
VOUSEKLEK J  
STROJIRENSTVI  
9 439-44 1959 RM 16 11760
- T023641  
HEAT AND ELECTRICAL CONDUCTIVITIES OF CHROME-NICKEL AUSTENITE STEELS.  
NEIMARK B E  
TEPLOENERGETIKA  
5 1 48-52 1958 BR 7 7303
- T023643  
THE MATERIALS FOR CONDENSER TUBES.  
FUJII, Y.  
TETSU-TO-MAGANE/J IRON STEEL INST JAPAN/  
21 568-75 1935 NA 3 4
- T024039  
HEAT CAPACITY OF STAINLESS CHROMIUM STEELS.  
LYUSTERNIK V E  
FIZ METAL I METALLOVED AKAD NAUK SSSR  
11 368-74 1961 CA 55 16343  
( FOR ENGLISH TRANSLATION SEE T25349 )
- T024107  
PROPERTIES OF MATERIALS, IRONS AND STEELS.  
AUTHOR ANON.  
MATERIALS IN DESIGN ENGINEERING  
2, 36-74PP., 1959.
- T024435  
VARIATION OF CORROSION COATINGS FOR METALS AT ELEVATED TEMPERATURES.  
SULLY, A. H. BRANDES, E. A.  
WATERHOUSE, R. P.  
FUEL RESEARCH INSTITUTE, LONDON, ENGLAND  
OFFICIAL REPORT NO. 1, 1-24, 1953.
- T024464  
CORROSION AND PRECIPITATION PROPERTIES OF HEAT RESISTANT ALLOY STEELS FOR PETROCHEMICAL AND GIL INDUSTRIES.  
FUELLER RESEARCH INSTITUTE, LONDON, ENGLAND  
OFFICIAL REPORT NO. 1, 1-24, 1953.
- T024464  
CORROSION AND PRECIPITATION PROPERTIES OF HEAT RESISTANT ALLOY STEELS FOR PETROCHEMICAL AND GIL INDUSTRIES.  
FUELLER RESEARCH INSTITUTE, LONDON, ENGLAND  
OFFICIAL REPORT NO. 1, 1-24, 1953.

- T025015  
NON-FERROUS METALS IN MISSILES.  
CORNALL P M  
METAL INDUSTRY  
77 162-7 1961 RM 18 628-P
- T025045  
THERMAL CONDUCTIVITIES AND ELECTRICAL RESISTIVITIES  
OF SEVERAL METALS PROPOSED FOR USE IN GAS TURBINES.  
POWELL R W  
IRON STEEL INST /LONDON/ SPEC REPT  
43 315-8 1952
- T025154  
HEAT AND ELECTRIC CONDUCTIVITY OF CERTAIN  
HEAT-RESISTANT MATERIALS AT HIGH TEMPERATURE.  
PERJUN V I. KNOXO7. L. I.  
TEKHNIK. NAUCH.-ISSLEDOVATEL. INST. TEKHNOL. I  
MASHINSTROEN  
79 159-74 1957
- T025349  
THERMAL CAPACITY OF CHROMIUM STAINLESS STEELS.  
LYUSTERNIK V YE  
PHYS. METALS AND METALLOG USSR  
11 3 47-52 1961  
(ENGLISH TRANSLATION OF FIZ. METAL. I METALLOVED.  
21 (3), 368-374, 1961; FOR ORIGINAL SEE T24039)
- T025424  
SPECIAL CORROSION RESISTANT REFRACTORIES.  
NUBLE, P. W. GROWN, R. W.  
CORROSION  
15 10 92 94 95 98 1959
- T025429  
CERTAIN PROBLEMS RELATED TO THE VISCOSITY OF FUSED  
METALS.  
SHVIDKOVSKIY, Y.  
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
1-2-1, 1952.  
(ENGLISH TRANSLATION OF NEKOTORYE VOPROSY  
VYAZKOSTI RASPLAVLENNYKH METALLOV., GITL, MOSCOW.  
1-2-36, 1955; FOR ORIGINAL SEE T25430)  
(NASA-TT-F-88)
- T025430  
CERTAIN PROBLEMS RELATED TO THE VISCOSITY OF FUSED  
METALS.  
SHVIDKOVSKIY, YE. G.  
NEKOTORYE VOPROSY VYAZKOSTI RASPLAVLENNYKH METALLOV.  
GITL, MOSCOW  
1-2-36 1955  
(FOR ENGLISH TRANSLATION SEE T25429)
- T025219  
THERMOPHYSICAL PROPERTIES OF NICKEL-CHROMIUM-IRON  
ALLOYS.  
NEIMARK B E LYUSTERNIK V E ANICHKINA E YU  
BYKOVA T I  
HIGH TEMPERATURE  
1 1 9-12 1963  
(ENGLISH TRANSLATION OF TEPLOFIZIKA VYSOKIYKH  
TEMPERATUR, 1 (1), 12-6, 1963; FOR ORIGINAL SEE  
T26220)
- T025220  
THERMOPHYSICAL PROPERTIES OF NICKEL-CHROMIUM-IRON  
ALLOYS.  
NEIMARK B E LYUSTERNIK V E ANICHKINA E YU  
BYKOVA T I  
TEPLOFIZIKA VYSOKIYKH TEMPERATUR  
1 1 12-16 1963  
(FOR ENGLISH TRANSLATION SEE T26219)
- T025228  
JET EMINATION OF THE EMISSIVITY OF STAINLESS STEEL  
AFTER VARIOUS SURFACE TREATMENTS AS A FUNCTION OF  
TEMPERATURE.  
KOMARIN A. STRIGIN B K  
HIGH TEMPERATURE  
1 1 24-6 1963  
(ENGLISH TRANSLATION OF TEPLOFIZIKA VYSOKIYKH  
TEMPERATUR, 1 (1), 30-2, 1963; FOR ORIGINAL SEE  
T26269)
- T026264  
DETERMINATION OF THE EMISSIVITY OF STAINLESS STEEL  
AFTER VARIOUS SURFACE TREATMENTS AS A FUNCTION OF  
TEMPERATURE.  
KOMARIN A. STRIGIN B K  
TEPLOFIZIKA VYSOKIYKH TEMPERATUR  
1 1 24-7 1963  
(FOR ENGLISH TRANSLATION SEE T26268)
- T026424  
ENTHALPY AND HEAT CAPACITY OF NICHROME AND CARBON AND  
ALLOY STEELS.  
SUKHANOV L L. SEREBRENNIKOV N M  
TEKHNIK. POLITEKHN. INST SB  
114 81-5 1961 CA 57 13482
- T027050  
EFFECT OF THERMAL TREATMENT ON THERMAL AND ELECTRICAL  
CONDUCTIVITY OF 15KH12VMF/EI802/ STEEL.  
KAZHIZHANSKIY A E  
METALLOVED I TERN OBRABOTKA METAL  
2 48-9 1962 CA 56 13895  
(FOR ENGLISH TRANSLATION SEE T30679)
- T027051  
USING EI692 STEEL FOR WORK AT 800 C.  
LUFKOV I S. VOEIKOV V P  
METALLOVEDENIE I TEKHICHESKAYA OBRABOTKA METALLOV  
49-51 1962 FM 19 366-P  
(FOR ENGLISH TRANSLATION SEE T30008)
- T027623  
EFFECT OF COLD DEFORMATION AND AGING ON THERMAL  
CONDUCTIVITY, ELECTRICAL RESISTIVITY, AND THE LORENZ  
NUMBER OF CHROMIUM-NICKEL AUSTENITIC STEELS.  
NEIMARK B E. BYKOVA T I  
FIZ. METAL. I METALLOVED  
15 1 150-1 1963 CA 58 7658  
(FOR ENGLISH TRANSLATION SEE T99942)
- T027699  
JETHETE H193 DATA SHEET NO. 77.  
AUTHOR ANON.  
ENGINEERING MATERIALS AND DESIGN  
5 (2), 133P., 1962.
- T027827  
AN AUTOMATIC CALORIMETER FOR THE QUANTITATIVE THERMAL  
ANALYSIS OF HEAT-RESISTANT STEELS.  
LYUSTERNIK V E  
INSTR. EXPTL. TECH. USSR  
4 647-50 1959  
(ENGLISH TRANSLATION OF PRIBORY I TEKH.  
EKSPERIMENTA, NO. 4, 127-9, 1959; FOR ORIGINAL SEE  
T019328)
- T027960  
THE TEMPERATURE DEPENDENCY OF THE ELECTRICAL  
RESISTANCE OF PURE IRON AND STEEL WITH PARTICULAR  
REFERENCE TO PHASE CHANGES.  
KOPHAAS, R. RICHTER, F.  
ARCHIV FÜR DAS EISENMUTTENWESEN  
33 5 291-9 1962 RM 19 748-F
- T028195  
EVALUATION OF THE NET RADIANT HEAT TRANSFER BETWEEN  
SPECULARLY REFLECTING PLATES INCLUDING COMPUTED  
EMISSIVITIES.  
MOLT V E. GROSH A J. GEYNET R  
INTERN J HEAT MASS TRANSFER  
6 755-8 1963
- T028660  
DETERMINATION OF THERMAL CONDUCTIVITY AND HEAT  
CAPACITY OF STEELS.  
TAPKOT D L  
ZHUR. TEKH. FIZ  
5 6 1011-36 1935
- T028695  
PLANT SUPERVISION IN THE MANUFACTURE AND PROCESSING  
OF HIGH-LEAD STEEL AND THROUGH IT LIMITED  
PRODUCTION RESEARCH.  
FOURGE HENRI  
STAND. U. LIEN  
10 4 93-9 1930

- T033008  
SUITABILITY OF E I 832 STEEL FOR SERVICES AT 800 C.  
LUPAKOV, I. S.  
METAL SCIENCE AND HEAT TREATMENT OF METALS  
78-80 1962  
( ENGLISH TRANSLATION OF METALLOVED. I TERM.  
DOKLADY METALLOV, 49-51, 1962; FOR ORIGINAL  
SEE T27051 )
- T033040  
THERMAL CONDUCTIVITY AND DIFFUSIVITY OF POROUS SINTER  
MATERIAL.  
RICHTER M  
ARHANGEL DEUT AKAD WISS BERLIN KL MATH PHYSIK TECH  
1 99-107 1962 CA 59 1325
- T033122  
EVALUATION OF THE NET RADIANT HEAT TRANSFER BETWEEN  
SPECULARLY REFLECTING PLATES.  
MOLT V E GRUSH R J GEYNET R  
BELL SYST TECH J  
41 6 1865-77 1962 AM 16 3555
- T033679  
EFFECT OF HEAT TREATMENT ON THERMAL AND ELECTRICAL  
CONDUCTIVITY OF 15KH12VMF E I 832 STEEL.  
KRECHMANOVSKII M S  
METAL SCIENCE AND HEAT TREATMENT OF METALS  
1-2 77-8 1962 RM 20 642-P  
( ENGLISH TRANSLATION OF METAL. I TERM. DOKL. METAL.  
2, 46-9, 1962; FOR ORIGINAL SEE T27050 )
- T033732  
EVALUATION OF THE THERMAL CONDUCTIVITY AT MODERATE  
AND HIGH TEMPERATURES. PT. 2.  
RICHTER, W. LIPPMAHN, S. ARNHOLD, A.  
NEUE HUTTE  
8 6 366-7J 1963 RM 20 83984P
- T031061  
INFLUENCE OF ADDITIVES ON VISCOSITY OF MOLTEN STEELS.  
KRECHMANOVSKII M S SIDORENKO M F  
RUSSIAN CASTINGS PRODUCTION  
12 599-6U 1963 RM 21 02786D  
( ENGLISH TRANSLATION OF LITENIE PROIZVODSTVO ( 12 )  
P. 19, 1963; FOR ORIGINAL SEE T32700 )
- T031195  
EXPERIMENTAL DETERMINATION OF SOME PHYSICAL  
PROPERTIES OF ALLOYED STEELS.  
NEIMARK B E  
TEPLOENERGETIKA  
2 3 3-10 1955 CA 49 10820
- T031645  
CONNECTION BETWEEN THE PROPERTIES OF STEEL IN LIQUID  
AND SOLID STATE.  
KRECHMANOVSKII M S SIDORENKO M F  
17V STIYA VOZ-CHERNAYA METALLURGIYA  
5 131-5 1962 RM 20 601-P
- T031957  
HEAT TRANSFER BY RADIATION. RADIATION OF THE  
BOUNDARY LAYER SHOCK AND MEASUREMENT OF EMISSION  
FACTORS OF METALS.  
DE LESTOILE, H. ROSENTHAL, L.  
ADVISORY GROUP FOR AERONAUTICAL RES. AND DEV.  
( PARIS )  
1-82, 1958.  
( ADAND-211, N63-21549 )
- T032215  
THE INFLUENCE OF THE TEMPERATURE REGIME OF MELTING  
ON THE VISCOSITY OF LIQUID HIGH-ALLOY STEEL.  
KRECHMANOVSKII M S SIDORENKO M F  
17V VYSOKIH UCHEN ZAVODENII CHERN MET  
6 11 60-4 1963 CA 61 5280
- T031695  
VISCOSITY OF MOLTEN STEEL AND THE EFFECT OF CERIUM  
AND CALCIUM.  
KRECHMANOVSKII M S SIDORENKO M F  
VYSLAVKA STALI DLYA FASON LITYA  
P2-34 1963 CA 60 10279
- T031700  
INFLUENCE OF PURIFYING AGENTS ON VISCOSITY OF LIQUID  
STEELS.  
KRECHMANOVSKII M S SIDORENKO M F  
LIT INDI PROIZVODSTVO  
12 19 1963 RM 21 48580  
( FOR ENGLISH TRANSLATION SEE T31061 )
- T033173  
INFRA-RED ABSORPTION BY METALS AT LOW TEMPERATURES.  
KAPNATHAN K G  
PRUC PHYS SOC /LONCOM/  
65 A 432-4U 1952
- T033205  
RADIATION MEASUREMENTS ON PLATING ELEMENTS IN THE  
SPECTRAL REGION 0.5 - 7 MU.  
FULER J  
ELEKTROTECH  
70 15 427-31 1949
- T034161  
THE HIGH-CHROMIUM HIGH-COBALT TYPE STEELS FOR  
HOT-WORK DIES.  
NISHIMURA T  
TETSU TO HAGANE  
50 10 1449-57 1964 CA 63 12749
- T035485  
EXPERIMENTAL DETERMINATION OF THE COEFFICIENT OF  
THERMAL CONDUCTIVITY FOR SOLIDS AT TEMPERATURES  
210-1000 DEGREES.  
BANAIEV A M CHEKHOVSKOI V YA  
TEPLOFIZ VYSOKIH TEMPERATUR AKAD NAUK SSSR  
3 1 57-63 1965 CA 62 15827  
( FOR ENGLISH TRANSLATION SEE T038626 )
- T035576  
THERMAL CONDUCTIVITY OF ALLOYED AND PLAIN STEELS AND  
ALLOYS AT TEMPERATURES BETWEEN 20 AND 700 DEGREES.  
RUNGARDT K SPYRA W  
ARCH EISENHUETTENN  
3A 4 257-67 1965 CA 63 1528  
( FOR ENGLISH TRANSLATION SEE T46015 )
- T035577  
THE THERMAL CONDUCTIVITY OF PURE IRON AND SOME  
FERRITIC AND AUSTENITIC STEELS BETWEEN THE  
TEMPERATURE OF LIQUID AIR AND ROOM TEMPERATURE.  
KCHLHAAS R KIERSPER W  
ARCH EISENHUETTENN  
36 4 301-9 1965 CA 63 1529  
( FOR ENGLISH TRANSLATION SEE T46016 )
- T035615  
TEMPERATURE DEPENDENCE OF THE HEAT CAPACITY OF  
FERROMAGNETIC STEELS AND IRON BASED ALLOYS.  
LYUSTERNIK V YE  
FIZ METAL I METALLOVED  
19 5 694-8 1965  
( FOR ENGLISH TRANSLATION SEE T39718 )
- T036045  
COMPLEX DETERMINATION OF THERMOPHYSICAL PROPERTIES  
OF SOLIDS BY IMPULSE-ADIABATIC METHOD.  
EGOROV, B. N. KILISSO, V. S.  
TEPLOFIZ. SVOISTVA TVERD. TEL. VYS. TEMP., TR. VSIS.  
KUNF.  
65-71PF., 1971.
- T036760  
PHYSICAL PROPERTIES OF KH17 N7 YU STEEL.  
NEIMARK B E LYUSTERNIK V E KORYTINA S F  
HIGH TEMPERATURE  
2 5 652-5 1964  
( ENGLISH TRANSLATION OF TEPLIFIZIKA VYSOKIH  
TEMPERATUR, 2 ( 5 ), 725-3, 1964; FOR ORIGINAL SEE  
T38429 )
- T037417  
CONTINUOUS MEASUREMENT OF THE THERMAL CONDUCTIVITY OF  
METALS IN THE TEMPERATURE RANGE BETWEEN LIQUID AIR  
AND ROOM TEMPERATURE.  
KIERSPER W KCHLHAAS R  
7 ANGEN PHYS  
17 5 361-4 1964 CA 61 5224
- T037822  
APPARATUS FOR MEASURING THERMAL CONDUCTIVITY OF  
CERAMICS AND METALS AT ELEVATED TEMPERATURES.  
KAWASHIMA T ITO S TANAKA S ISHIMAWA I  
BULL TOKYO INST TECHNOL  
53 51-82 1963 AM 17 4759

- T040083  
INSTALLATION FOR MEASURING HEAT CAPACITY AND THERMAL CONDUCTIVITY OF METALS AT HIGH TEMPERATURES AND SOME VALUES FOR HEAT-RESISTANT ALLOYS.  
DZHENOVSKI A I BABANOV A A KAGANOV M A  
CHERNYKH A I CHERNYKHANOVA M A  
IN Leningrad Polytechnic Inst  
204 203-16 1963 CA 61 6727
- T040329  
PHYSICAL PROPERTIES OF KH17 N7 YU STEEL.  
NEUMARK B E LYUSTERNIK V E KORYTINA S F  
TEPLOENERGETIKA VYSOKIH TEMPERATUR  
2 1 70-71 1964 CA 62 3732  
( FOR ENGLISH TRANSLATION SEE T36780 )
- T040477  
METHODS OF DETERMINATION OF RADIATION PROPERTIES AND PERMEABILITY AND PERMISSIVITY OF MATERIALS AND RESULTS OF INVESTIGATIONS OF NUMBER OF METALS AT THE TEMPERATURE RANGE -100 TO +1500 C.  
KALCHIN A I F. KHAMROV, IG. A. GORDON, A. R.  
TEPLOENERGETIKA VYSOKIH TEMPERATUR  
170-81FP., 1971.
- T040609  
A STUDY OF MULTI-LAYER INSULATION.  
POLOVITSKII L V ARKAD'EV B A  
TEPLOENERGETIKA  
11 1 36-40 1964  
( FOR ENGLISH TRANSLATION SEE T38610 )
- T040610  
A STUDY OF MULTI-LAYER INSULATION.  
POLOVITSKII L V ARKAD'EV B A  
TEPLOENERGETIKA  
11 1 36-40 1964  
( ENGLISH TRANSLATION OF TEPCENERGETIKA 11 ( 1 ), 36-40, 1964; FOR ORIGINAL SEE T38609 )
- T040626  
EXPERIMENTAL DETERMINATION OF THE COEFFICIENT OF THERMAL CONDUCTIVITY OF SOLID MATERIALS IN THE TEMPERATURE RANGE 200-1000 C.  
KHAMROV A M CHERNYKHANOV V YA  
HIGH TEMPERATURE PHYSICS  
6 1 47-52 1965  
( ENGLISH TRANSLATION OF TEPCFIZ. VYSOKIH TEMPERATUR 3 ( 1 ), 57-63, 1965; FOR ORIGINAL SEE T35445 )
- T040663  
MODIFIED NONSTATIONARY METHOD OF DETERMINING THE PERMEABILITY OF MATERIALS.  
KHAMROV A M KHAMROV YU A BARANOV V I  
GOLITSYN A R TRUSHEVSKII S M  
GOLITSYN A R  
5 16-22 1968
- T040636  
A STUDY OF THE EMISSIVITY OF SOLID BODIES.  
MITOR V V KONOPELKO I N  
TEPLOENERGETIKA  
13 7 67-71 1966  
( FOR ENGLISH TRANSLATION SEE T41003 )
- T040712  
TEMPERATURE DEPENDENCE OF THE HEAT CAPACITY OF FERROMAGNETIC STEELS AND IRON BASED ALLOYS.  
LYUSTERNIK V E  
PHYS. METALS METALLOG  
19 5 48-51 1965  
( ENGLISH TRANSLATION OF FIZ. METAL. I METALLOVED., 19 ( 5 ), 694-8, 1965; FOR ORIGINAL SEE T35615 )
- T040817  
THERMAL CONDUCTIVITY AND ELECTRICAL RESISTIVITY OF STEELS.  
TYE R P  
ENGINEER  
221 968-71 1966
- T040868  
THE THERMAL AND ELECTRICAL CONDUCTIVITIES OF METALS AND ALLOYS.  
POWELL R M  
LONDON UNIV., LONDON, ENGLAND, PH.D. THESIS  
1-74 1938
- T040392  
GLASS-TO-METAL SEALS. II.  
CONDUCTIVITY IN THE UPPER ATMOSPHERE.  
FULL, A. W. BURGER, E. L. NAVIAS, L.  
J APPLIED PHYS  
12 698-707 1941  
1-38 1966 PA N66-4-24 4718
- T040744  
METHODS FOR THE DETERMINATION OF THE SURFACE TEMPERATURE, THE ABSORPTION NUMBER AND THE THERMAL CONDUCTIVITY OF LOOSE THIN COATINGS.  
FRASOLOV R S  
IZV VYSSHIKH UCHEB ZAVEDENII PRIBOROSTROENIE USSR  
5 3 122-31 1962  
( FOR GERMAN TRANSLATION SEE T040745 )
- T040745  
METHODS FOR THE DETERMINATION OF THE SURFACE TEMPERATURE, THE ABSORPTION NUMBER AND THE THERMAL CONDUCTIVITY OF LOOSE THIN COATINGS.  
FRASOLOV R S  
SPECIAL LIBRARY ASSOC., TRANSLATIONS CENTER  
1-15, 1965.  
( GERMAN TRANSLATION OF IZV. VYSSHIKH UCHEB. ZAVEDENII PRIBOROSTROENIE USSR, 5 ( 3 ), 122-31, 1962; FOR ORIGINAL SEE T040744 )  
( IT-65-28195 )
- T040777  
EFFECT OF INOCULANTS ON THE VISCOSITY OF LIQUID STEELS.  
KRESEMCHANOVSKII A S SIGGRENKO M F  
IZVEST VYSSHIKH UCHEB ZAVEDENII CHERNAYA MET  
6 9 142-4 1963  
( FOR ENGLISH TRANSLATION SEE T043175 )
- T041003  
A STUDY OF THE EMISSIVITY OF SOLID BODIES.  
MITOR V V KONOPELKO I N  
THERMAL ENGINEERING  
13 7 92-7 1966  
( ENGLISH TRANSLATION OF TEPCENERGETIKA, 13 ( 7 ), 67-71, 1966; FOR ORIGINAL SEE T039236 )
- T041396  
PHYSICO-MECHANICAL AND CORROSION PROPERTIES OF HEAT-RESISTANT STAINLESS STEEL EP-479.  
SPIRNOV V V POKHLEBNIK V I BULTAKOVICH A V  
FIZIKO-KHIMICHESKAYA MEKHANIKA MATERIALOV  
2 3 304-7 1966  
( FOR ENGLISH TRANSLATION SEE T044276 )
- T041730  
FORMATION OF THE SIGMA-PHASE IN ZrON-45 PERCENT CHROMIUM ALLOYS AND THE EFFECTS OF HOLYBDENUM ADDITIONS ON ITS METALLURGICAL PROPERTIES.  
KUMADA, K.  
NIPPON KIN70KU GAKKAISHI  
30 ( 8 ), 725-9, 1966.
- T041881  
EFFECTS OF THE STATE OF THE SURFACE OF STEEL IN KH18N9T ON THE TOTAL EMISSIVITY COEFFICIENT.  
SALA A  
PRACE INST MECH PRECYZYJNEJ  
14 1 14-17 1966 CA 65 19775
- T042477  
HEAT CONDUCTIVITY AND ELECTRIC RESISTANCE OF STEEL EI211.  
NEIMARK B E VORONIN L K  
ENERGOMASHINOSTROENIE  
7 33-4 1965 CA 64 6199
- T042778  
NEW MEASUREMENTS ON THERMAL CONDUCTIVITY REFERENCE MATERIALS.  
POWELL R M TYE R P  
INTERN J HEAT MASS TRANSFER  
10 5 581-96 1967
- T042814  
THERMAL RADIATION ABSORPTION OF METALS AND LAYERED INOCULATIONS AT 40 K.  
CULVER, B.  
NATL. INST. FOR RES. IN NUCLEAR SCI., FARNELL, ENGL.  
1-14, 1965.  
( NPL-R-83, N66-18788 )



- T042917  
SPECIFIC HEAT OF SOME STEELS AND ALLOYS AT 10-300 K.  
TSIOVAIN YU N SUKHANOV V D  
METAL SCIENCE HEAT TREATMENT METALS  
9 702-3 1967  
( ENGLISH TRANSLATION OF METALLOV. TERN. CORAB.  
METAL., (9), 61-2, 1967; FOR ORIGINAL SEE T47148 )
- T042965  
DETERMINATION OF THE COEFFICIENT OF LINEAR THERMAL  
EXPANSION OF METALS AT 1 DEGREES C.  
MAKIN, S. M. STANUNING, J. HUNTER, P. M.  
UNITED KINGDOM ATOMIC ENERGY AUTHORITY, RISELEY,  
ENGLAND  
1-8, 1953.  
( RUB-707-TN-45 )
- T043175  
EFFECT OF INOCULANTS ON THE VISCOSITY OF LIQUID  
STEELS.  
KRISHCHANOVSKII N S SIUCKENKO M F  
HENRY BRUTCHER TRANSLATION CENTER  
1-5, 1966.  
( ENGLISH TRANSLATION OF IZV. VYSSH. UGHEB. ZAVED.  
CHERN. MET., 6 (9), 142-4, 1963; FOR ORIGINAL SEE  
T40777 )  
( HB-6913, NCH-204236 )
- T043335  
FUSED VACUUM-TIGHT, METAL-TO-CERAMIC,  
CERAMIC-TO-GLASS, METAL-TO-GLASS, AND METAL-TO-MICA  
SEALING BY POWDERED GLASS TECHNIQUES.  
ANTON N  
CERAMIC AGE  
63 1 15-19 1954
- T043552  
HEAT EXCHANGE BETWEEN CONTACTING PARTS.  
DYJAN E P KONDAK N M SHVEP I T  
IZV AKAD NAUK SSSR OTDEL TEKH NAUK  
9 63-79 1954
- T043997  
HEAT EXCHANGE BETWEEN CONTACTING PARTS.  
DYJAN E P KONDAK N M SHVETS I T  
IZVEST AKAD NAUK UZBEKSKOI SSR  
9 63-79 1954
- T044276  
PHYSICO-MECHANICAL AND CORROSION PROPERTIES OF  
HEAT RESISTANT STAINLESS STEEL EP-479.  
SMYKOV V V POKHMURSKII V I BOLTAROVICH A V  
SOVIET MATERIALS SCIENCE  
2 3 216-20 1966  
( ENGLISH TRANSLATION OF FIZ. KHIM. MEKH. MATER.,  
2 (3), 344-7, 1966; FOR ORIGINAL SEE T41396 )
- T044488  
APPARATUS FOR MEASUREMENT OF THERMAL CONDUCTIVITY ON  
SMALL SPECIMENS.  
VISHNEVSKII I I SKRIPAK V N  
UGNEUPORY  
31 12 13-19 1966 CA 66 55563  
( FOR ENGLISH TRANSLATION SEE T46599 )
- T044552  
SPECTRAL EMISSIVITY OF MATERIALS IN THE TEMPERATURE  
RANGE 100 TO 1100 C.  
SMIRNOV E V KONERASHOV YU A  
TEPLCFIZ VYSOKIH TEMPERATUR  
5 1 44-7 1967 CA 66 107457  
( FOR ENGLISH TRANSLATION SEE T45327 )
- T044609  
PHYSICAL-MECHANICAL AND TECHNOLOGICAL PROPERTIES OF  
OKH23N18M3UST Z1943/ STEEL, RESISTANT TO SULFURIC  
ACID.  
BARANOV A A POSYSAEVA L I ZOTOVA E V  
ZASHCHITA METAL  
2 4 450-4 1966 CA 65 18240
- T044755  
THERMAL DIFFUSIVITY DETERMINATION OF CAST STEEL.  
SAMUILOVICH YU A GLOKHIN E P  
INZH-FIZ ZHUR  
7 6 27-31 1964
- T045247  
HEAT METHOD FOR MEASURING HEAT CONDUCTIVITY OF  
MATERIALS AT LOW TEMPERATURES.  
KREISER H I  
POKUSH MET  
7 1 131-7 1967 CA 67 56941
- T045327  
SPECTRAL EMISSIVITY OF MATERIALS IN THE TEMPERATURE  
RANGE 100 TO 1100 C.  
SMIRNOV E V KONERASHOV YU A  
HIGH TEMPERATURE USSR  
5 1 37-40 1967  
( ENGLISH TRANSLATION OF TEPLCFIZ. VYS. TEMP., 5 (1),  
44-7, 1967; FOR ORIGINAL SEE T44552 )
- T045420  
THERMAL CONDUCTIVITY OF SOME METALS AND ALLOYS AT  
4.2-273 K.  
MERISOV B A KNOTKEVICH V I ZLOBINTSEV G M  
KOTINEI V V  
INZH-FIZ ZH  
12 5 675-7 1967 CA 67 85620  
( FOR ENGLISH TRANSLATION SEE T61950 )
- T045576  
EFFECT OF DEOXIDATION ON THE PROPERTIES OF SOME  
STEELS IN LIQUID AND SOLID STATES.  
KRISHCHANOVSKII N S SPUMSKII V G  
IZV VYSSH UGHEB ZAVED CHERN MET  
10 5 45-8 1967 CA 67 93171
- T046015  
THERMAL CONDUCTIVITY OF ALLOYED AND UNALLOYED STEELS  
AND ALLOYS AT TEMPERATURES BETWEEN 20 AND 700 C.  
BUNGAKOT K SPYRA W  
BRITISH IRON AND STEEL INDUSTRY  
1- , 1966.  
( ENGLISH TRANSLATION OF ARCHIV EISENHUTTENW.,  
36, 257-67, 1965; FOR ORIGINAL SEE T35576 )  
( BISI-4664 )
- T046016  
THERMAL CONDUCTIVITY OF PURE IRON AND CERTAIN  
FERRITIC AND AUSTENITIC STEELS BETWEEN THE  
TEMPERATURE OF LIQUID AIR AND AMBIENT TEMPERATURE.  
KONIGHAAS W KIERSPER W  
BRITISH IRON AND STEEL INDUSTRY  
1- , 1966.  
( ENGLISH TRANSLATION OF ARCHIV FUER EISENHUTTENW.,  
36, 351-5, 1965; FOR ORIGINAL SEE T35577 )  
( BISI-4665 )
- T046358  
CONTRIBUTION TO THE MEASUREMENT OF THE THERMAL  
CONDUCTIVITY OF METALS IN THE RANGE OF 0 TO 500 C.  
KUSTER W BODE K H FRITZ W  
WARME UND STOFFUEBERTRAGUNG  
1 3 129-39 1968
- T046406  
METALLIC RAW MATERIALS.  
KREISER, W.  
FORHENDAU KUNSTST.-VERARB.  
176-212, 1965.
- T046599  
APPARATUS FOR MEASURING THERMAL CONDUCTIVITY OF SMALL  
SPECIMENS.  
VISHNEVSKII I I SKRIPAK V N  
REFRATORIES  
12 694-7 1966  
( ENGLISH TRANSLATION OF UGNEUPORY, (12), 13-18,  
1966; FOR ORIGINAL SEE T44488 )
- T046845  
HEAT RESISTANT CASTINGS--THEIR SELECTION AND  
APPLICATION.  
CLAUSER H R  
MATERIALS AND METHODS  
32 79-90 1950
- T046869  
CONTRIBUTION TO THE STUDY OF THERMAL DIFFUSIVITY OF  
SOLIDS.  
ZANKEL, K.  
UNIV. OF GRENOBLE, GRENOBLE, FRANCE, PH. D. THESIS  
1-62, 1967.  
( LFA-X-3150 )
- T047148  
HEAT CAPACITY OF SOME STEELS AND ALLOYS AT 10-300 K.  
TSIOVAIN YU N SUKHANOV V D  
METALLOV. TERN. CORAB METAL  
9 10-2 1967 CA 68 33814  
( FOR ENGLISH TRANSLATION SEE T42917 )

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|--|---|
| T047237<br>CLASS USED IN THE MANUFACTURE OF APPARATUS AND<br>INSTRUMENTS.<br>DE JONGE, J.<br>CONSTRUCTIE MATERIALEN<br>2 ( 1 ), 20-2, 1967.  | T050343<br>MEASUREMENTS OF THE THERMAL CONDUCTIVITY OF THIN<br>FILMS OF MAGNETITE.<br>LIS J KELLARD P O<br>BRIT J APPL PHYS<br>1 9 1117-23 1968   |
| T047932<br>AN EXPERIMENTAL INVESTIGATION OF HEAT AND ELECTRICAL<br>CONDUCTION OF STEEL KH 18 NGT.<br>IVANUCHENIN G E<br>INZH FIZ ZHUR<br>4 6 128-31 1961   | T050419<br>LOW-TEMPERATURE SPECIFIC HEATS OF SOME POLISH TOOL<br>STEELS AND STAINLESS STEEL.<br>MAZUR J ZACHARUK W<br>ACTA PHYS POL<br>33 4 657-63 1968 CA 69 53785   |
| T048218<br>PHYSICAL PROPERTIES OF STEELS OKH15 N7 M2 YU,<br>OKH17 N4 M2 AND OKH17 N4.<br>NEYMANN B YE VORONIN L K KORYTINA S F<br>ZHMERAK E I<br>FIZ METAL METALLOVED<br>23 2 374-5 1967<br>( FOR ENGLISH TRANSLATION SEE T48219 )   | T050499<br>APPARATUS FOR THE DETERMINATION OF THE TOTAL NORMAL<br>EMITTANCE OF SURFACES AT TEMPERATURES BETWEEN 50 AND<br>250 C.<br>ALFANO G BETTA V<br>NATIONAL CONGRESS ATI<br>1-36 1968  |
| T048219<br>PHYSICAL PROPERTIES OF STEELS OKH1P N7 M2 YU,<br>OKH1M N4 M2 AND OKH17 N4.<br>NEYMANN B YE VORONIN L K KORYTINA S F<br>ZHMERAK E I<br>PHYS METAL METALLOG USSR<br>23 2 201-3 1967<br>( ENGLISH TRANSLATION OF FIZ. METAL METALLOVED. 23<br>( 2 ), 374-75, 1967; FOR ORIGINAL SEE T48218 ) | T050683<br>METHOD OF RAPID DETERMINATION OF THE COEFFICIENT OF<br>TEMPERATURE CONDUCTIVITY OF SOLID AND LIQUID<br>SUBSTANCES.<br>ZHUZE, V. P. REGEL, A. R.<br>ZH. TEKH. FIZ.<br>22 ( 8 ), 1376-86, 1952.  |
| T048538<br>STRUCTURAL CHANGES IN CHROMIUM - NICKEL STEEL ALLOYED<br>WITH ALUMINUM.<br>SHEV, K. V. SHVEDOV, L. I. PAVLENKO, Z. C.<br>LOSHITS, S. L.<br>STUKT. SVOISTVA ZHAROPROCH. METAL. MATER., AKAD.<br>NAUK S S S R, INST. MET.<br>224-22, 1967.  | T050921<br>RADIATION PROPERTIES OF TYPE KH18N9T STAINLESS STEEL<br>WITH HEATING IN AIR.<br>ZHOROV G A SERGEEV V S<br>HIGH TEMP<br>6 2 327-9 1968<br>( ENGLISH TRANSLATION OF TEPLCFIZ. VYS. TEMP., 6<br>( 2 ), 340-2, 1968; FOR ORIGINAL SEE T50002 )                       |
| T048753<br>SPECIFIC HEAT AT LOW TEMPERATURES OF EN-588 STAINLESS<br>STEELS.<br>MARTIN J F<br>J IRON STEEL INST /LONDON/<br>204 1 56 1966 CA 68 97854   | T052493<br>EXPERIMENTAL DETERMINATION OF THE COEFFICIENT OF<br>LINEAR EXPANSION OF METALS AND ALLOYS.<br>TOTSII E E<br>TEPLOFIZ VYSOKIKH TEMPERATUR<br>2 2 205-14 1964<br>( FOR ENGLISH TRANSLATION SEE T52494 )  |
| T049745<br>NEW MEASUREMENTS ON THERMAL CONDUCTIVITY REFERENCE<br>MATERIALS.<br>POWELL, H. W. TYE, R. F.<br>PROCEEDINGS OF THE CONFERENCE ON THERMAL<br>CONDUCTIVITY, 6TH<br>701-35 1966  | T052494<br>EXPERIMENTAL DETERMINATION OF THE COEFFICIENT OF<br>LINEAR EXPANSION OF METALS AND ALLOYS.<br>TOTSII E E<br>HIGH TEMPERATURE<br>2 2 181-9 1964<br>( ENGLISH TRANSLATION OF TEPLOFIZ. VYSOKIKH<br>TEMPERATUR. 2 ( 2 ), 205-14, 1964; FOR ORIGINAL SEE<br>T52493 ) |
| T049801<br>EFFECTS OF CHROMIUM AND SILICON ON THE VISCOSITY OF<br>IRON-CHROMIUM-CARBON SYSTEM ALLOYS.<br>BACH E A GELJ P V KUCHEROV P V<br>IZV. AKAD. NAUK SSSR METAL<br>2 85-9 1968 CA 69 12314<br>( FOR ENGLISH TRANSLATION SEE T60325 )   | T053132<br>ANTICORROSIVE FERRITIC STEEL WITH WIDE UTILIZATION<br>POSSIBILITIES.<br>BARAF L<br>CONSTR MASINI<br>20 12 746-8 1968 CA 70 50043   |
| T050002<br>RADIATION PROPERTIES OF KH18N9T STAINLESS STEEL<br>DURING HEATING IN AIR.<br>ZHOROV G A SERGEEV V S<br>TEPLOFIZ VYS TEMP<br>6 2 340-2 1968 CA 69 21420<br>( FOR ENGLISH TRANSLATION SEE T50921 )  | T053139<br>THERMOPHYSICAL PROPERTIES OF FIBER-REINFORCED<br>PLASTICS. I. MEASUREMENT OF THERMAL PROPERTIES BY<br>RADIATION HEATING.<br>TAKENAKA, Y. OGAWA, K.<br>KYOKA PURASUCHIKKUSU<br>14 ( 4 ), 191-9, 1968.   |
| T050088<br>DILATOMETRIC STUDY OF PHASE TRANSFORMATIONS IN<br>HIGH-CHROMIUM STEELS.<br>SHULGA N G ZHAKOVA M F<br>IZV. VYSOKIKH TEMPERATUR. ZAVED. CHEMN. MET.<br>2 1 196-03 1963<br>( FOR ENGLISH TRANSLATION SEE T63811 )  | T053160<br>THERMAL EXPANSION CHARACTERISTICS OF SOME<br>IRON-CHROMIUM-MANGANESE-NITROGEN ALLOYS.<br>TSEHAN Y N<br>NAT. MET. LAB. TECH. J.<br>10 2 31-4 1968 CA 70 22177   |
| T050172<br>THERMAL DIFFUSIVITY OF IRON AND AUSTENITIC STEEL AT<br>HIGH TEMPERATURES.<br>GONKA M KIENSPE W KOHLHAAS R<br>Z. METALFORSCH.<br>23 A 5 793-5 1968 CA 69 39274   | T053245<br>PRECISION INDUSTRIAL DILATMETER.<br>BRANCHEREAU M NAVEZ M PERROUX M<br>VERRES REFRACT<br>16 3 159-67 1962  |
|  | T053276<br>PARAMETERS CORRELATING ELECTRON AND PHONON<br>CONDUCTIVITY AND A METHOD FOR DETERMINING THE LATTER.<br>K. ZH. ZHURN. FIZ. K.<br>1 1 10117-20 1968 CA 70 61916<br>( FOR ENGLISH TRANSLATION SEE T53919 )  |

- T053437**  
RELATION BETWEEN THE PROPERTIES OF STEELS AND ALLOYS  
IN THE SOLID AND MELTEN STATES.  
NAUM B A TYASUNOV G V  
IZV ANAD NAUK SSSR METAL  
1 224-33 1969 CA 70 70504  
( FOR ENGLISH TRANSLATION SEE T62272 )
- T053488**  
THERMOPHYSICAL CHARACTERISTICS OF HEAT SENSITIVE  
PAINTS.  
ABRAMOVICH B G NOVICHENOK L M  
TEPLOFIZ VYS TEMP  
6 5 834-43 1968 CA 70 30077  
( FOR ENGLISH TRANSLATION SEE T53963 )
- T053674**  
METHODS FOR DETERMINING THE INTEGRAL HEMISPHERIC  
EMISSION OF MATERIALS AT -100 TO +1000  
DEGREES.  
KUMAROV YU A MUCHNIK G F GORDON A R  
TEPLOFIZ VYS TEMP  
6 5 844-50 1968 CA 70 81137  
( FOR ENGLISH TRANSLATION SEE T53964 )
- T053747**  
REVERSE TRANSFORMATION AND THE ACCOMPANYING ANCHALY  
IN DILATION ON HEATING OF METASTABLE AUSTENITIC  
STAINLESS STEEL.  
SAITO T  
TETSU TO HAGANE  
54 12 1297-310 1968 CA 70 31075
- T053882**  
THE INFLUENCE OF SHORT PERIODS OF EXCESS HEATING ON  
THE MECHANICAL PROPERTIES OF EI-612 AND EI-929  
HEAT-RESISTANT AUSTENITIC MATERIAL.  
STANYUKOVICH A V ADAMOVICH V K  
TEPLOENERGETIKA  
15 7 4-6 1968  
( FOR ENGLISH TRANSLATION SEE T053883 )
- T053883**  
THE INFLUENCE OF SHORT PERIODS OF EXCESS HEATING ON  
THE MECHANICAL PROPERTIES OF EI-612 AND EI-929  
HEAT-RESISTANT AUSTENITIC MATERIAL.  
STANYUKOVICH A V ADAMOVICH V K  
THERMAL ENRGU  
15 7 5-9 1968  
( ENGLISH TRANSLATION OF TEPLONERGETIKA, 15 ( 7 ),  
4-6, 1968; FOR ORIGINAL SEE T053882 )
- T053963**  
THERMOPHYSICAL CHARACTERISTICS OF HEAT SENSITIVE  
PAINTS.  
ABRAMOVICH B G NOVICHENOK L M  
HIGH TEMPERATURE  
6 5 801-4 1968  
( ENGLISH TRANSLATION OF TEPLOFIZ. VYS. TEMP.,  
6 ( 5 ), 834-43, 1968; FOR ORIGINAL SEE T053488 )
- T053984**  
METHOD OF DETERMINING THE INTEGRAL HEMISPHERIC  
RADIATIVE CAPACITY OF MATERIALS IN THE TEMPERATURE  
RANGE FROM -100 TO 1000 C.  
KUMAROV YU A MUCHNIK G F GORDON A R  
HIGH TEMPERATURE  
6 5 805-11 1968  
( ENGLISH TRANSLATION OF TEPLOFIZ. VYS. TEMP.,  
6 ( 5 ), 844-50, 1968; FOR ORIGINAL SEE T053674 )
- T053909**  
NON-STATIONARY METHOD OF DETERMINING THE THERMAL  
CONDUCTIVITY OF SOLIDS.  
EGOROV B N KONRATENKOV V I  
TEPLOFIZ VYS TEMP  
6 5 901-4 1968  
( FOR ENGLISH TRANSLATION SEE T053910 )
- T053910**  
NON-STATIONARY METHOD OF DETERMINING THE THERMAL  
CONDUCTIVITY OF SOLIDS.  
EGOROV B N KONRATENKOV V I  
HIGH TEMPERATURE  
6 5 851-4 1968  
( ENGLISH TRANSLATION OF TEPLOFIZ. VYS. TEMP.,  
6 ( 5 ), 901-4, 1968; FOR ORIGINAL SEE T053909 )
- T053919**  
PARAMETERS THAT RELATE THE ELECTRON AND PHONON  
CONDUCTIVITIES AND A METHOD FOR DETERMINING THE  
LATTER.  
KAZHIZHANOVSKII R E  
HIGH TEMPERATURE  
6 6 971-5 1968  
( ENGLISH TRANSLATION OF TEPLOFIZ. VYS. TEMP. 6  
( 6 ), 1016-20, 1968; FOR ORIGINAL SEE T53276 )
- T054143**  
THERMAL RESISTANCE OF VACUUM CONTACTS BETWEEN  
METALLIC SURFACES OF DISSIMILAR SURFACE ROUGHNESS.  
KAGANER M G ZHUKOVA K I  
TRUDY VSES NAUCHN ISSLEO INST KISLOVODSK MASHINSTR  
11 100-15 1967
- T054475**  
LATTICE PARAMETERS AND THERMAL EXPANSION COEFFICIENTS  
OF SACR-1001 AND ZUCK-2001 AUSTENITES.  
STUART M RIDLEY N  
J IRON STEEL INST /LONDON/  
207 3 368 1969 CA 70 117411
- T054527**  
THERMAL AND ELECTRICAL CONDUCTIVITIES OF PORCUS  
NICKEL, IRON, AND STEEL KH17N2.  
MALKO P I NEMCHENKO V F LVOV S N FUGIN V S  
POROSH MET  
9 1 62-6 1969 CA 70 90116  
( FOR ENGLISH TRANSLATION SEE T063341 )
- T054943**  
MEASURING THE THERMAL DIFFUSIVITY OF METALS.  
GONSKA, H. KIERSPE, M.  
Z. ANGEN. PHYS.  
26 ( 5 ), 340-5, 1969.
- T055023**  
DESCRIPTION OF A METHOD FOR MEASURING THE TRANSPORT  
COEFFICIENTS OF METALS AND ALLOYS AS A FUNCTION OF  
TEMPERATURE ACCORDING TO THE KOHLPAUSCH METHOD.  
BOHEM R WACHTEL E  
Z METALLK  
60 5 505-12 1969 CA 71 32504
- T055107**  
EFFECT OF NICKEL CONTENT ON THE COEFFICIENT OF LINEAR  
EXPANSION OF A CHROMIUM-NICKEL METAL WELD SEAM.  
GUTALSKII YU N VASILEV V G  
AVTOMAT SVARKA  
20 5 9-12 1969 CA 71 41488  
( FOR ENGLISH TRANSLATION SEE T095363 )
- T055420**  
EFFECT OF MOLYBDENUM AND NITROGEN ON THE PROPERTIES  
OF AUSTENITIC STEEL 1KH14N19V20R1 ( E I 726 ).  
LANSKAYA, K. A. KULIKOVA, L. V.  
SB. IN. TSENTR. NAUCH. ISSLEO. INST. CHERN. MET.  
( 65 ), 10-13, 1968.
- T055606**  
CALORIMETRIC ANALYSIS OF THE LOW-TEMPERATURE AGING IN  
MARAGING STAINLESS STEELS.  
KINOSHITA T TOKUNAGA Y TOYOSHIMA T  
NIPPON KINZOKU GAKKAISHI  
33 2 260-5 1969 CA 71 83739
- T055620**  
APPARATUS FOR DETERMINING THE NORMAL TOTAL SURFACE  
EMITTANCE AT 50 TO 250 DEGREES.  
ALFANO, G. BETTA, V.  
TEPMOTECHNICA  
23 ( 4 ), 212-19, 1969.
- T055824**  
THERMAL DIFFUSIVITY OF SOME HIGH-TEMPERATURE  
RESISTANT STEELS AND ALLOYS FROM 20 TO 1000 DEGREES.  
PREISENDANZ M SPIKA W SCHUELER P  
DEW /DOUT LUELSTAHLWERKE/-TECH BER  
5 2 293-300 1969 CA 71 115556
- T055832**  
THERMAL CONDUCTIVITY OF 18KH14N19V20R1 AND  
18KH14N19V20R1 STEELS ALLOYED WITH CERIUM AT HIGH  
TEMPERATURES.  
MATYASHOV B LEZHENIN F F  
IZV VYSSCHENK ZAVOD ENRG  
17 6 114-22 1969 CA 71 115555

- T050828  
MEASUREMENTS OF THE THERMAL CONDUCTIVITY AND ELECTRICAL RESISTIVITY OF HIGH-ALLOY FERRITIC STEELS.  
PEREL, T. KASTIG, J. J. VODOPIVEC, F.  
HUNG INST JOZEF STEFAN NIJS POROCILO  
P-245 1-31 1969 CA 72 23829
- T050875  
ON THE THERMAL CONDUCTIVITY OF CERAMETS AND THEIR MEASUREMENT BY THE RADIAL HEAT FLOW METHOD.  
JONKAD-K S SCHULZ B THUMMLER F  
HIGH TEMPERATURES-HIGH PRESSURES  
1 4 439-47 1969
- T057454  
ON THE THERMAL CONDUCTIVITY AND THE THERMAL DIFFUSIVITY OF IRON AND STEELS IN THE HIGH TEMPERATURE RANGE.  
KIELEFF, M. JONSKA, M. KEHLMAAS, R.  
EUROPEAN CONFERENCE ON THERMOPHYSICAL PROPERTIES OF SOLIDS AT HIGH TEMPERATURES  
343-67 1968
- T057534  
EFFECT OF NONMETALLIC INCLUSIONS ON THE VISCOSITY OF METAL MELTS.  
BARTAROV, V. I. EKHMOV, G. S.  
NOVOPRATSKII, I. A. KOVALENKO, A. M.  
DOKL. AKAU. NAUK SSSR  
29 ( 2 ), 366-8, 1970.
- T057644  
DETERMINATION OF THE THERMAL COEFFICIENTS OF EXPANSION OF SOME COMMERCIAL METALS AND ALLOYS.  
FRIEDMAN, J. M. VALLANCE R M  
J INSTITUTE METALS  
31 1 75-9 1924
- T057693  
GLASS-TO-METAL SEAL DESIGN.  
SCOTT A J  
J SCIENTIFIC INSTRUMENTS  
23 9 133-202 1946
- T057792  
EFFECT OF COATINGS AND LININGS OF SOFT METALS ON CONTACT HEAT RESISTANCE.  
MALIKOV, V. A. DUBASHIN, P. A.  
DOKL. AKAU. NAUK SSSR  
17 ( 5 ), 671-9, 1969.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 69629 )
- T058235  
ANOMALY IN DILATION OBSERVED IN REVERSE TRANSFORMATION RANGE OF METASTABLE AUSTENITIC STAINLESS STEEL.  
SAITO T  
TRANS IRON STEEL INST JAP  
9 6 455-64 1969 CA 72 81866
- T058277  
EFFECT OF SMALL CALCIUM AND CERIUM ADDITIVES ON THE STRUCTURE AND SOME PROPERTIES OF CHROMIUM-ALUMINUM PRIMARY FERRITE.  
KHEIMASHVILI V G GVALIYA T M  
VOF METALLOVED KORNOZ METAL  
61-6 1968 CA 71 73130
- T058286  
DEFORMED COATINGS WITH A HIGH COEFFICIENT OF THERMAL EXPANSION.  
PEVNER B Z APPEN A A ANTONOVA E A  
ZNAKOSTOIKIE TEPLUSTOIKIE POKRYTIYA TR VSES SOVESHCH  
4TH 1968  
205-10 1969 CA 72 82397
- T058425  
MEASURING TRUE HEAT CAPACITY OF METALS.  
GUREVICH, M. E. LANKOV, L. N.  
YUNCHENKO, YU. F.  
FAZOVYE PREVRASHCH. ( METALLOFIZ. 22 )  
160-8, 1968.
- T058972  
PHYSICAL PROPERTIES OF STEELS, PARTICULARLY OF REFRACTORY STEELS.  
FINK K RICHTER F LCTTER U SCHRECKE K  
THYSEN-FORSCHUNG  
2 2 65-80 1970
- T059313  
THERMAL CONDUCTIVITY OF CHROMIUM - NICKEL STEELS.  
DURICKOVIC, V.  
TEHNIKA ( BELGRADE )  
25 ( 3 ), 463-6, 1970.
- T059423  
A CONTINUING REGISTRATING VERTICAL DILATOMETER UP TO 1600 C.  
RICHTER F  
Z ANGEN PHYS  
29 6 367-72 1970
- T059796  
EXPANSION COEFFICIENTS OF STRUCTURAL MATERIALS AT LOW TEMPERATURES.  
BELOV A K  
METALLOVED TERM OBRAB METAL  
4 20-2 1968  
( FOR ENGLISH TRANSLATION SEE T59797 )
- T059797  
EXPANSION COEFFICIENTS OF STRUCTURAL MATERIALS AT LOW TEMPERATURES.  
BELOV A K  
METAL SCIENCE HEAT TREATMENT METALS  
4 267-5 1968  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB. METAL. (4), 20-2, 1968; FOR ORIGINAL SEE T59796 )
- T059802  
THE MECHANISM OF CRACK FORMATION IN THERMAL FATIGUE TESTS OF TITANIUM ALLOYS.  
FULTSIN A M PAVLOV V YA POKROVSKAYA V B  
METALLOVED TERM OBRAB METAL  
9 38-42 1968  
( FOR ENGLISH TRANSLATION SEE T59803 )
- T059803  
THE MECHANISM OF CRACK FORMATION IN THERMAL FATIGUE TESTS OF TITANIUM ALLOYS.  
FULTSIN A M PAVLOV V YA POKROVSKAYA V B  
METAL SCIENCE HEAT TREATMENT METALS  
9 708-11 1968  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB. METAL. (9), 36-42, 1968; FOR ORIGINAL SEE T59802 )
- T060023  
HEAT-RESISTING KH25NI2AR STEEL.  
MELKUMOV I N BOYARINOVA A P  
METALLOVED I TERPICHESKAYA OBRABOTKA METAL  
2 32-4 1968  
( FOR ENGLISH TRANSLATION SEE T60024 )
- T060024  
HEAT-RESISTING KH25NI2AR STEEL.  
MELKUMOV I N BOYARINOVA A P  
METAL SCI HEAT TREATMENT  
2 113-14 1968  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB. METAL. (2), 32-4, 1968; FOR ORIGINAL SEE T60023 )
- T060325  
INFLUENCE OF CHROMIUM CONTENT AND OF SILICON ADDITIONS ON THE VISCOSITY OF FE-CR-C ALLOYS.  
BAUM H A GELD P V KOCHEROV P V  
RUSSIAN METALLURGY /METALLYZ  
2 54-5 1968  
( ENGLISH TRANSLATION OF IZV. AKAU. NAUK SSSR, METAL. ( 2 ), 85-5, 1968; FOR ORIGINAL SEE T49801 )
- T060521  
INFLUENCE OF COLD DEFORMATION AND AGEING ON THE DENSITY AND COEFFICIENT OF LINEAR EXPANSION OF CHROMIUM-NICKEL AUSTENITIC STEELS.  
NEYMARK B YE  
FIZ METAL METALLOVED  
14 3 465-73 1962  
( FOR ENGLISH TRANSLATION SEE T60522 )
- T060522  
INFLUENCE OF COLD DEFORMATION AND AGEING ON THE DENSITY AND COEFFICIENT OF LINEAR EXPANSION OF CHROMIUM-NICKEL AUSTENITIC STEELS.  
NEYMARK B YE  
PHYS METAL METALLOVED  
14 3 126-31 1962  
( ENGLISH TRANSLATION OF FIZ. METAL. METALLOVED. 14 ( 3 ), 465-70, 1962; FOR ORIGINAL SEE T60521 )

- T060724  
DETERMINATION OF THE COEFFICIENT OF EXPANSION BY  
MEANS OF CHEVENARD DILATOMETER.  
GLICKMAN, L. CHISTOVICH, P.  
ZAKOD, LAB.  
2, 494-1033, 1934.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 66062 )
- T060870  
EFFECT OF RARE-EARTH METAL ADDITIVES ON THE THERMAL  
CONDUCTIVITY OF 2.5 PERCENT CHROMIUM STEEL.  
KOSTOVITSEV, L. A. LEZHIN, F. F.  
PILUTSKII, M. I.  
SU., MOSK. INST. STALI SPLAVOV  
( 55 ), 215-6, 1969.
- T061068  
PHYSICAL PROPERTIES OF MOLTEN HIGH-ALLOY STEELS AND  
SPECIAL ALLOYS.  
BAUM, B. A. OBYAKONOVA, L. V.  
ERMANOVICH, N. A. TYAGUNOV, G. V.  
KHASIN, G. A.  
FIZ. KHIM. OBRAB. MATER.  
( 5 ), 43-8, 1973.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 64045 )
- T061769  
THERMAL CONDUCTIVITY AND DIFFUSIVITY OF STEEL.  
JONES, F. W. CHISHOLM, P. J.  
J. IRON STEEL INST., LONDON  
209 ( PT. 3 ), 210-4, 1971.
- T061846  
AGING OF THE MARTENSITE OF IRON-CHROMIUM-NICKEL AND  
IRON-CHROMIUM-NICKEL-ALUMINUM STEELS.  
BOGACHEV I N ZVIGINTSEV N V MOGUTNOV B M  
FIZ. METAL. METALLOVED  
28 6 999-1006 1969 CA 72 102383  
( FOR ENGLISH TRANSLATION SEE T61847 )
- T061847  
MARTENSITE AGEING IN FE-CR-NI AND FE-CR-NI-AL STEELS.  
BOGACHEV I N ZVIGINTSEV N V MOGUTNOV B M  
PHYS. METALS METALLOGRAPHY  
28 6 41-3 1969  
( ENGLISH TRANSLATION OF FIZ. METAL. METALLOVED., 28  
( 6 ), 999-1006, 1969; FOR ORIGINAL SEE T61846 )
- T061950  
THERMAL CONDUCTIVITY OF SOME METALS AND ALLOYS IN  
THE TEMPERATURE RANGE 4.2-273 K.  
MERISOV B A KHUTKEVICH V I ZLOBINTSEV G M  
KOZINETS V V  
ENGINEERING PHYSICS  
12 5 364-6 1967  
( ENGLISH TRANSLATION OF INZH. FIZ. ZHUR., 12 ( 5 ),  
675-7, 1967; FOR ORIGINAL SEE T45423 )
- T062272  
RELATIONSHIP BETWEEN THE PROPERTIES OF STEELS AND  
ALLOYS IN THE SOLID AND LIQUID STATES.  
BAUM B A TYAGUNOV G V  
RUSSIAN METALLURGY  
1 121-6 1969  
( ENGLISH TRANSLATION OF AZV. AKAJ. NAUK SSSR, METAL.  
( 1 ), 229-33, 1969; FOR ORIGINAL SEE T5437 )
- T062347  
THERMOPHYSICAL AND ELECTRICAL CHARACTERISTICS OF A  
SERIES OF ALLOY STEELS AND ALLOYS AT HIGH  
TEMPERATURES.  
KHASIN, G. A. OYAKONOVA, L. V.  
FABRL. STALNOGO SLITKA, IR. KUNF. SLITKU, 4TH  
71-85, 1969.
- T062581  
RELATION BETWEEN TOTAL EMISSIVITY AND NATURE OF THE  
OIL LAYER ON 1H18N9T STEEL.  
SALA, A.  
PR. INST. MECH. PRECYZ.  
18 ( 3-4 ), 24-36, 1970.
- T062755  
HEAT- PHYSICAL PARAMETERS OF IRON MATERIALS AND  
THEIR INFLUENCE ON THE PROCESS OF SOLIDIFICATION.  
DOERING, K.  
NEUE HUETTE  
16 ( 2 ), 99-102, 1971.
- T062761  
DEVELOPMENT OF PRODUCTION TECHNOLOGY AND A STUDY OF  
THE PROPERTIES OF EXTRA-LOW CARBON KH26-VI STEEL.  
MIKELIN, K. P. LYUBINSKAYA, M. A.  
TOPILIN, V. V. ZUBKO, A. M. DZUGUTOV, M. YA.  
STAL  
31 ( 2 ), 162-6, 1971.
- T063178  
EFFECT OF SURFACE ROUGHNESS ON THE THERMAL  
ACCUMULATION COEFFICIENT AND EMISSIVITY.  
TEREKHOV, A. D. FKOLOVA, E. N.  
INZH.-FIZ. ZH.  
20 ( 1 ), 114-18, 1971.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 72197 )
- T063265  
THERMAL AND ELECTRICAL CONDUCTIVITY OF SOME TECHNICAL  
MATERIALS IN THE 0.4-1.5 DEGREES K RANGE.  
MIKHAILOVA, G. N.  
ZH. TEKH. FIZ.  
41 ( 4 ), 400-3, 1971.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 68703 )
- T063341  
THE THERMAL AND ELECTRICAL CONDUCTIVITIES OF POROUS  
NICKEL, IRON, AND STEEL KH17N2.  
PALKO P I NEMCHENKO V F LVOV S N PUGIN V S  
SOVIET POWDER MET. METAL CERAMICS  
1 49-52 1969  
( ENGLISH TRANSLATION OF POROSH. MET., USSR, 9 ( 1 ),  
62-6, 1969; FOR ORIGINAL SEE T54527 )
- T063811  
CALORIMETRIC STUDY OF PHASE TRANSFORMATIONS IN  
HIGH-CHROMIUM STEELS.  
SHULGA N G ZANGRA M F  
FOREIGN TECHNOLOGY DIVISION  
1-16, 1971.  
( ENGLISH TRANSLATION OF IZV. VYSSHIKH UCHEB. ZAVED.  
CHEM. MET., 6 ( 9 ), 156-63, 1963; FOR ORIGINAL SEE  
T50088 )  
( FTO-MT-24-1422-71 )
- T063874  
CORRELATION BETWEEN THE OXIDATION STATE OF 1H18N9T  
STEEL AND THE TOTAL EMISSIVITY VALUE AS MEASURED IN  
THE COURSE OF OXIDATION.  
SALA, A.  
PR. INST. MECH. PRECYZ.  
18 ( 4-A ), 13-9, 1970.
- T064045  
PHYSICAL PROPERTIES OF MOLTEN HIGH-ALLOY STEELS AND  
SPECIAL ALLOYS.  
BAUM, B. A. OBYAKONOVA, L. V.  
ERMANOVICH, N. A. TYAGUNOV, G. V.  
KHASIN, G. A.  
FOREIGN TECHNOLOGY DIVISION  
21PP., 1971.  
( ENGLISH TRANSLATION OF FIZ. KHIM. OBRAB. MATER.,  
( 5 ), 43-8, 1973; FOR ORIGINAL SEE TPRC NO. 61068 )  
( FTO-MT-24-1858-71, 40-747-354, N73-12579 )
- T064341  
SIMPLE PROCEDURE FOR THE DETERMINATION OF THE  
THERMAL CONDUCTIVITY OF STEELS.  
HAAUNER, J. FRIEDHOFF, P.  
MATERIALPRUEFUNG  
13 ( 7 ), 230-3, 1971.
- T064351  
NUMERICAL DETERMINATION OF THERMAL EXPANSION OF  
CASTING ALLOYS.  
PIASKOWSKI, J.  
PR. INST. COLEM.  
21 ( 1 ), 27-35, 1971.
- T064659  
DEVICE FOR STUDYING THERMAL DIFFUSIVITIES AND TRUE  
SPECIFIC HEATS OF METALS.  
KURPIN, V. V. KURAVOI, S. E.  
PLATONOV, E. S.  
T. FIZ. VYS. TEMP.  
9 ( 3 ), 611-6, 1971.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 64660 )

- T064660  
APPARATUS FOR THE INVESTIGATION OF THERMAL DIFFUSIVITY AND TRUE SPECIFIC HEAT OF METALS.  
KUPCHIN, V. V. DUKAVOI, S. E.  
PLATONOV, E. S.  
HIGH TEMP.  
9 ( 3 ), 554-8, 1971.  
( ENGLISH TRANSLATION OF TEPLOFIZ. VYS. TEMP., 9 ( 3 ), 611-6, 1971., FOR ORIGINAL SEE TPRC NO. 64659 )
- T064927  
EXPERIMENTAL STUDY OF THE TRUE HEAT CAPACITY OF 1 KM 10 N 9 T ( CHROMIUM - NICKEL - TITANIUM ) STAINLESS STEEL AT HIGH TEMPERATURES.  
CHEKHOVSKOI, V. YA. GERASINA, T. Z.  
Zh. Fiz. Khim.  
45 ( 8 ), 2033-5, 1971.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 64928 )
- T064928  
THE TRUE HEAT CAPACITY OF STAINLESS STEEL OF TYPE 1 KM 10 N 9 T AT HIGH TEMPERATURES.  
CHEKHOVSKOI, V. YA. GERASINA, T. Z.  
RUSS. J. PHYS. CHEM.  
45 ( 8 ), 1152-4, 1971.  
( ENGLISH TRANSLATION OF Zh. Fiz. Khim., 45 ( 8 ), 2133-5, 1971., FOR ORIGINAL SEE TPRC NO. 64927 )
- T064980  
THERMAL CONDUCTIVITY AND SPECIFIC HEAT CAPACITY OF ZINC SULFIDE AND CADMIUM SULFIDE IN THE TEMPERATURE REGION FROM 20 K TO 300 K.  
KRUEGER, R.  
TECHNISCHE UNIVERSITÄT, BERLIN, PH.D. THESIS  
49PP., 1969.  
( NTIS-29717 )
- T065271  
THERMAL CONDUCTIVITY OF ALLOY STEELS AT 20-1000 DEGREES K.  
ERMOLOV, B. I.  
METALLOVED. TEKH. OBRAB. METAL.  
( 10 ), 51, 1971.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 74139 )
- T066046  
TEMPERATURE DEPENDENCE OF THE THERMAL AND ELECTRICAL CONDUCTIVITIES OF STEELS AND FERROUS HARD ALLOYS.  
MIRNYUKOV, V. E.  
FOREIGN TECHNOLOGY DIVISION  
16PP., 1972.  
( ENGLISH TRANSLATION OF VESTNIK MOSKOV. UNIV., SER. FIZ.-MATH. ESTESTVEN NAUK, ( 4 ), 29-43, 1951; FOR ORIGINAL SEE TPRC NO. 1646 )  
( FTQ-MC-23-1952-71, AD-744290 )
- T066062  
DETERMINATION OF THE COEFFICIENT OF EXPANSION BY MEANS OF CHEVENARD DILATOMETER.  
GLICKMAN, L. CHISTOVICH, P.  
FOREIGN TECHNOLOGY DIVISION  
32PP., 1972.  
( ENGLISH TRANSLATION OF ZAVOD LAB., 2, 992-1003, 1934., FOR ORIGINAL SEE TPRC NO. 60724 )  
( FTQ-MT-24-2087-71, AD-749735 )
- T066075  
TRUE HEAT CAPACITY OF COPPER AND OF CHROMIUM-NICKEL-TITANIUM STEEL IN THE 300-900 DEGREE K TEMPERATURE RANGE.  
CHEKHOVSKOI, V. YA. GERASINA, G. Z.  
HIGH TEMPERATURE  
9 ( 5 ), 854-8, 1971.  
( ENGLISH TRANSLATION OF TEPLOFIZ. VYS. TEMP., 9 ( 5 ), 938-42, 1971., FOR ORIGINAL SEE TPRC NO. 66072 )
- T066245  
THERMOPHYSICAL PROPERTIES OF SICROPAL STEELS.  
NEIMARK, B. E. BELYAKOVA, P. E.  
KAFUZOVA, L. M. MERKUL'EV, A. N.  
TEPLCENERGETIKA  
( 1 ), 46-9, 1972.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 69512 )
- T066308  
INVESTIGATION OF PLASMA COATING POROSITY.  
CHEVELA, G. B. MORGZOV, I. A.  
LOGINOV, V. E. OMTIKIEVA, E. V.  
PO-OSH. MET.  
10, 65-71, 1971.  
( FOR ENGLISH TRANSLATION SEE T67429 )
- T066522  
INFLUENCE OF IRON AND CHROMIUM ON THE VISCOSITY OF IRON - CHROMIUM - ALUMINUM ALLOYS.  
LEVIN, I. S. AYUSHINA, G. D.  
17V. VYSSH. UCHEB. ZAVED. CHEM. MET.  
19 ( 4 ), 22-7, 1972.
- T066884  
VISCOSITY OF MOLTEN STEELS.  
BAUM, D. A. TYAGUNOV, G. V. KHASIN, G. A.  
FIZ.-KHIM. OSN. FIZIZVOG. STALI, MATER.  
SIPP. MET. METALLOVED.  
547-51, 1971.
- T067429  
POROSITY OF PLASMA - SPRAYED COATINGS.  
CHEVELA, G. B. MORGZOV, I. A.  
LOGINOV, V. E. OMTIKIEVA, E. V.  
SOV. POWDER MET. METAL CERAM.  
10 ( 9 ), 732-7, 1971.  
( ENGLISH TRANSLATION OF POROSH. MET., 10 ( 9 ), 65-71, 1971., FOR ORIGINAL SEE TPRC NO. 66308 )
- T068598  
SELECTION OF MATERIAL FOR CASTING RETORTS FOR CARBON DISULFIDE PRODUCTION.  
GIEREK, A.  
PRZEGL. GOLEW.  
22 ( 6 ), 215-9, 1972.
- T068703  
THERMAL AND ELECTRICAL CONDUCTIVITY OF CERTAIN TECHNICAL MATERIALS IN THE TEMPERATURE RANGE 0.4-1.5 DEGREES K.  
MIKHAILOVA, G. N.  
SOV. PHYS.-TECH. PHYS.  
16 ( 4 ), 626-8, 1971.  
( ENGLISH TRANSLATION OF Zh. TEKH. FIZ., 41 ( 4 ), 860-3, 1971., FOR ORIGINAL SEE TPRC NO. 63265 )
- T068881  
INVESTIGATION OF THE SPECTRAL RADIATION CHARACTERISTICS OF HEAT RESISTING MATERIALS.  
ZUBOV, V. V. KRIVANDIN, V. A.  
MASTRUKOV, B. S.  
IZV. VYSSH. UCHEB. ZAVED., CHERN. MET.  
15 ( 9 ), 155-7, 1972.
- T068839  
INFLUENCE OF CERIUM, LANTHANUM, NEODYMIUM, AND BORON ON THE CRITICAL POINTS AND THE LINEAR EXPANSION COEFFICIENT OF KH17N2 STEEL.  
TIKHONOVSKAYA, L. G. VASILEV, V. G.  
BRAUN, M. P.  
METALLOFIZIKA  
( 37 ), 73-77, 1971.
- T069382  
DETERMINATION OF THE RADIAL THERMAL CONDUCTIVITY OF MULTILAYER TUBES FOR THERMIONIC CONVERTERS.  
FIEBELMANN, P.  
FORSCH. INGENIEURW.  
38 ( 5 ), 133-8, 1972.
- T069512  
THERMOPHYSICAL PROPERTIES OF SICROPAL STEELS.  
NEIMARK, B. E. BELYAKOVA, P. E.  
KAFUZOVA, L. M. MERKUL'EV, A. N.  
TEKH. ENG., USSR  
19 ( 1 ), 60-4, 1972.  
( ENGLISH TRANSLATION OF TEPLCENERGETIKA, 19 ( 1 ), 46-9, 1972., FOR ORIGINAL SEE TPRC NO. 66245 )
- T069629  
EFFECT OF SOFT-METAL COATINGS AND METALS ON CONTACT THERMAL RESISTANCE.  
PALZKOV, V. A. DOBASHIN, P. A.  
J. ENG. PHYS., USSR  
17 ( 5 ), 1389-95, 1969.  
( ENGLISH TRANSLATION OF INZH.-FIZ. Zh., 17 ( 5 ), 871-9, 1969., FOR ORIGINAL SEE TPRC NO. 57992 )
- T070155  
A COMPARATIVE STUDY OF THE THERMAL DIFFUSIVITIES OF STAINLESS STEEL, NIOBIUM, AND ZIRCONIUM.  
WALTER, A. J. LILL, K. M. TAYLOR, R.  
HIGH TEMP.-HIGH PRESSURE  
4 ( 4 ), 439-46, 1972.

- T070436**  
THERMAL CONDUCTIVITY AND THERMAL DIFFUSIVITY OF PLASMA-SPRAYED STAINLESS STEEL.  
JONATENKO, G. K. MAKSHOVSKII, V. V.  
PASHKINA, M. I.  
INZH.-FIZ. Zh.  
24 ( 1 ), 112-14, 1973.  
( FOR ENGLISH TRANSLATION SEE T89356 )
- T070732**  
EXPERIMENTAL STUDY OF THE PHYSICAL PROPERTIES OF ALLOYS WITH A BASE OF VT-5 AND VT-6 TITANIUM.  
NEIMARK, B. E. KONYTINA, S. F.  
MORINA, Z. F. MERKUL'EV, A. N.  
HEAT TRANSFER-SOV. RES.  
5 ( 2 ), 4-6, 1973.
- T071053**  
THERMAL EXPANSION, YOUNG'S MODULUS, AND MAGNETOSTRICTION OF THE IRON - CHROMIUM - NICKEL STAINLESS ALLOY IN THE 80-280 K RANGE.  
GABANOV, M. A. FAKHROV, I. G.  
FIZ. METAL. METALLOVED.  
35 ( 3 ), 658-9, 1973.  
( FOR ENGLISH TRANSLATION SEE T96167 )
- T071162**  
MEASURING THE NORMAL SPECTRAL INFRARED EMISSIVITY OF STRUCTURAL MATERIALS.  
AKSYUTOV, L. N. PAVLYUKOV, A. K.  
KHLOPOV, G. K.  
INZH.-FIZ. Zh.  
24 ( 3 ), 393-9, 1973.  
( ENGLISH TRANSLATION SEE T83671 )
- T072004**  
DILATOMETER FOR MEASURING THE EXPANSION OF CONSTRUCTION MATERIALS IN THE 2-77 K RANGE.  
PEIKENKO, N. S. KRAVCHENKO, S. F.  
PRIB. TEKH. EKSP.  
( 3 ), 248-50, 1973.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 77222 )
- T072197**  
DEPENDENCE OF THE THERMAL COEFFICIENT OF ACCOMMODATION AND THE EMISSIVITY ON SURFACE ROUGHNESS.  
TEREKHOV, A. D. PROLOVA, E. N.  
J. ENG. PHYS.  
20 ( 1 ), 65-8, 1971.  
( ENGLISH TRANSLATION OF INZH.-FIZ. Zh., 20 ( 1 ), 124-8, 1971; FOR ORIGINAL SEE TPRC NO. 63178 )
- T072276**  
CALCULATION OF RADIATIVE HEAT EXCHANGE IN A CLOSED SYSTEM OF NONGRAY BODIES.  
MASTRUKOV, B. S.  
TEPLOFIZ. VYS. TEMP.  
11 ( 2 ), 442-4, 1973.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 72277 )
- T072277**  
CALCULATION OF RADIATIVE HEAT EXCHANGE IN A CLOSED SYSTEM OF NONGRAY BODIES.  
MASTRUKOV, B. S.  
HIGH TEMP.  
11 ( 2 ), 395-6, 1973.  
( ENGLISH TRANSLATION OF TEPLFIZ. VYS. TEMP., 11 ( 2 ), 442-4, 1973; FOR ORIGINAL SEE TPRC NO. 72276 )
- T072469**  
THERMAL CONDUCTIVITY OF URANIUM DIOXIDE-SODIUM POTASSIUM AND URANIUM DIOXIDE-SODIUM SLURRY.  
HULTZ, J.  
PRIM. HEAT MASS TRANSFER  
9, 235-92, 1972.
- T072482**  
TRANSMISSION FORCES TO A CRYOSTAT.  
GIANESE, P. PUNKOT, E.  
SEY, G. TAGUET, M.  
CRYOGENICS  
13 ( 5 ), 550-3, 1973.
- T073225**  
INFLUENCE OF CHROMIUM ON THE PHASE TRANSFORMATIONS AND WORK HARDENING OF STEELS OF THE G13 AND 30-10 TYPE.  
BUGACHEV, L. N. EYSMONT, T. O.  
FIZ. METAL. METALLOVED.  
30 ( 6 ), 1213-20, 1970.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 73226 )
- T073226**  
INFLUENCE OF CHROMIUM ON THE PHASE TRANSFORMATIONS AND WORK HARDENING OF STEELS OF THE G13 AND 30-10 TYPE.  
BUGACHEV, L. N. EYSMONT, T. O.  
FIZ. METAL. METALLOVED., USSR  
30 ( 6 ), 41-8, 1970.  
( ENGLISH TRANSLATION OF FIZ. METAL. METALLOVED., 30 ( 6 ), 1213-20, 1970; FOR ORIGINAL SEE TPRC NO. 73225 )
- T073229**  
ON THE PHYSICAL NATURE OF THE MARTENSITIC TRANSFORMATION POINT.  
SNEZHNOY, V. L. PIFOSHNIICHENKO, F. O.  
KARIBULOTSKIY, V. G. MALINEN, P. A.  
FIZ. METAL. METALLOVED.  
31 ( 1 ), 158-61, 1971.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 73230 )
- T073230**  
ON THE PHYSICAL NATURE OF THE MARTENSITIC TRANSFORMATION POINT.  
SNEZHNOY, V. L. PIFOSHNIICHENKO, F. O.  
KARIBULOTSKIY, V. G. MALINEN, P. A.  
FIZ. METAL. METALLOVED., USSR  
31 ( 1 ), 157-60, 1971.  
( ENGLISH TRANSLATION OF FIZ. METAL. METALLOVED., 31 ( 1 ), 158-61, 1971; FOR ORIGINAL SEE TPRC NO. 73229 )
- T073241**  
CHANGE IN THE APPARENT HEAT CAPACITY OF CHROMIUM STEEL DURING AGEING.  
BUGACHEV, L. N. ZVIGINTSEV, N. V.  
MOGUTNOV, B. M. PAPINA, N. V.  
FIZ. METAL. METALLOVED.  
31 ( 3 ), 450-2, 1972.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 73242 )
- T073242**  
CHANGE IN THE APPARENT HEAT CAPACITY OF CHROMIUM STEEL DURING AGEING.  
BUGACHEV, L. N. ZVIGINTSEV, N. V.  
MOGUTNOV, B. M. PAPINA, N. V.  
FIZ. METAL. METALLOVED., USSR  
31 ( 3 ), 207-9, 1972.  
( ENGLISH TRANSLATION OF FIZ. METAL. METALLOVED., 31 ( 3 ), 450-2, 1972; FOR ORIGINAL SEE TPRC NO. 73241 )
- T074090**  
IMPROVEMENT OF THE MAGNETIC PROPERTIES OF THE IRON - CHROMIUM ALLOY 16 Kh.  
KUZEV, I. M. KLEVITSKAYA, G. Z.  
ZUYEVA, M. M.  
IZV. AKAD. NAUK SSSR, METAL.  
( 4 ), 255-7, 1971.  
( FOR ENGLISH TRANSLATION SEE T74091 )
- T074091**  
IMPROVEMENT OF THE MAGNETIC PROPERTIES OF THE IRON - CHROMIUM ALLOY 16 Kh.  
KUZEV, I. M. KLEVITSKAYA, G. Z.  
ZUYEVA, M. M.  
FIZ. METAL. ( METALLY )  
( 4 ), 191-84, 1971.  
( ENGLISH TRANSLATION OF IZV. AKAD. NAUK SSSR, METAL., ( 4 ), 255-7, 1971; FOR ORIGINAL SEE T74090 )
- T074100**  
SOME PHYSICO-CHEMICAL PROPERTIES OF LIQUID IRON - CHROMIUM - ALUMINUM ALLOYS.  
LEVIN, E. S. SYUSHINA, G. O.  
IZV. AKAD. NAUK SSSR, METAL.  
( 2 ), 94-7, 1972.  
( FOR ENGLISH TRANSLATION SEE T74101 )
- T074101**  
SOME PHYSICO-CHEMICAL PROPERTIES OF LIQUID IRON - CHROMIUM - ALUMINUM ALLOYS.  
LEVIN, E. S. SYUSHINA, G. O.  
RUSS. METAL. ( METALLY )  
( 2 ), 70-7, 1972.  
( ENGLISH TRANSLATION OF IZV. AKAD. NAUK SSSR, METAL., ( 2 ), 94-7, 1972; FOR ORIGINAL SEE T74100 )

- T074113**  
THE NATURE OF 475 °C EMBRITTLEMENT OF HIGH-CHROMIUM  
STEELS.  
SHUL'GA, N. G. ZAMORA, M. F.  
PALASH, V. N. ZIMA, YU. V.  
METALLOVED. TERM. OUKAH. METAL.  
( 2 ), 51-3, 1970.  
( FOR ENGLISH TRANSLATION SEE T74114 )
- T074114**  
THE NATURE OF 475 °C EMBRITTLEMENT OF HIGH-CHROMIUM  
STEELS.  
SHUL'GA, N. G. ZAMORA, M. F.  
PALASH, V. N. ZIMA, YU. V.  
METAL SCI. HEAT TREAT. METALS, USSR  
( 2 ), 136-8, 1970.  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB.  
METAL., ( 2 ), 51-3, 1970; FOR ORIGINAL SEE T74113 )
- T074115**  
A NEW CHROMIUM - MANGANESE - NICKEL STEEL  
U K H 1 8 G 8 N 2 T ( K 0-3 ).  
ZHADAN, T. A.  
METALLOVED. TERM. OBRAB. METAL.  
( 3 ), 39-41, 1970.  
( FOR ENGLISH TRANSLATION SEE T74116 )
- T074116**  
A NEW CHROMIUM - MANGANESE - NICKEL STEEL  
U K H 1 8 G 8 N 2 T ( K 0-3 ).  
ZHADAN, T. A.  
METAL SCI. HEAT TREAT. METALS, USSR  
( 3 ), 221-3, 1970.  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB.  
METAL., ( 3 ), 39-41, 1970; FOR ORIGINAL SEE  
T74115 )
- T074117**  
BASIC TRENDS IN THE DEVELOPMENT OF WROUGHT ALUMINUM  
ALLOYS.  
FRIDLYANDER, I. N.  
METALLOVED. TERM. OBRAB. METAL.  
( 4 ), 44-51, 1970.  
( FOR ENGLISH TRANSLATION SEE T74118 )
- T074118**  
BASIC TRENDS IN THE DEVELOPMENT OF WROUGHT ALUMINUM  
ALLOYS.  
FRIDLYANDER, I. N.  
METAL SCI. HEAT TREAT. METALS, USSR  
( 4 ), 318-23, 1970.  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB.  
METAL., ( 4 ), 44-51, 1970; FOR ORIGINAL SEE T74117 )
- T074135**  
FREE-CUTTING NONMAGNETIC STAINLESS STEEL O K H 1 7 N  
1 6 ( E P 626 ).  
BAGAKOV, A. A. CHOBANYAN, A. A.  
PETKOVA, M. P. AVRUKH, E. L.  
METALLOVED. TERM. OBRAB. METAL.  
( 9 ), 16-9, 1971.  
( FOR ENGLISH TRANSLATION SEE T74136 )
- T074136**  
FREE-CUTTING NONMAGNETIC STAINLESS STEEL O K H 1 7 N  
1 6 ( E P 626 ).  
BAGAKOV, A. A. CHOBANYAN, A. A.  
PETKOVA, M. P. AVRUKH, E. L.  
METAL SCI. HEAT TREAT. METALS, USSR  
( 9 ), 726-8, 1971.  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB.  
METAL., ( 9 ), 16-9, 1971; FOR ORIGINAL SEE T74135 )
- T074139**  
THERMAL CONDUCTIVITY OF ALLOY STEELS AT 20 - 1000 K.  
ERULAV, B. I.  
METAL SCI. HEAT TREAT. METALS, USSR  
( 1 ), 853-4, 1971.  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB.  
METAL., ( 10 ), 51, 1971; FOR ORIGINAL SEE T65271 )
- T074178**  
EFFECT OF SUBSTRATE MATERIAL ON THE FORMATION OF  
THIN PLASMA-SPRAYED COATINGS.  
CHEVELA, O. B. ORLOVA, L. M.  
MOJIZOV, I. A. BASKAKOV, S. T.  
RYANICH, L. M.  
POKISH, MET.  
12 ( 3 ), 27-31, 1973.  
( FOR ENGLISH TRANSLATION SEE T74179 )
- T074179**  
EFFECT OF SUBSTRATE MATERIAL ON THE FORMATION OF  
THIN PLASMA-SPRAYED COATINGS.  
CHEVELA, O. B. ORLOVA, L. M.  
MOJIZOV, I. A. BASKAKOV, S. T.  
RYANICH, L. M.  
SOV. POWDER MET. METAL CERAM.  
12 ( 3 ), 199-202, 1973.  
( ENGLISH TRANSLATION OF POKISH, MET., 12 ( 3 ),  
27-31, 1973; FOR ORIGINAL SEE T74178 )
- T074555**  
TRANSPORT PROPERTIES IN PULSUS METAL FIBRE COMPOSITS  
WITH ORIENTED STRUCTURE.  
KARPINS, D. M. KLIMENKO, V. S.  
LUZHANSKII, G. A. RUTKOVSKII, A. E.  
SUKHIN, L. L.  
HIGH TEMP. HIGH PRESSURES  
5 ( 1 ), 35-8, 1973.
- T074599**  
CORRELATING EXPERIMENTAL DATA ON HEAT TRANSFER WITH  
POOL BOILING OF SEVERAL CRYOGENIC LIQUIDS.  
GRIGOREV, V. A. PAVLOV, YU. M.  
AMETISTOV, E. V.  
TEPLOENERGETIKA  
20 ( 9 ), 57-63, 1973.  
( FOR ENGLISH TRANSLATION SEE TPRC NO. 74600 )
- T074603**  
CORRELATING EXPERIMENTAL DATA ON HEAT TRANSFER WITH  
POOL BOILING OF SEVERAL CRYOGENIC LIQUIDS.  
GRIGOREV, V. A. PAVLOV, YU. M.  
AMETISTOV, E. V.  
THERM. ENG., USSR  
20 ( 9 ), 61-9, 1973.  
( ENGLISH TRANSLATION OF TEPLONERGETIKA, 20 ( 9 ),  
57-63, 1973; FOR ORIGINAL SEE TPRC NO. 74599 )
- T075035**  
LOW-TEMPERATURE AGING AND SEPARATED FLOW IN  
SUBSTITUTIONAL MARTENSITIC IRON-BASE ALLOYS.  
TOKUNAGA, Y. OKITA, T.  
JAPAN INST. METALS, J.  
37, 1330-1338, 1973.
- T075275**  
THERMOPHYSICAL CHARACTERISTICS OF SOME COMPOSITE  
ANTIFRICTION MATERIALS.  
KLIMENKO, V. S. KARPINS, D. M.  
PUGINA, L. I.  
TEPLOFIZ. SVOISTVA TVERD. VESHCHESTV, MATER. VSES.  
TEPLOFIZ. KONF. SVICISTVAM VESHCHESTV VYS. TEMP., 4TH  
110-16, 1973.
- T076360**  
THERMOPHYSICAL PROPERTIES OF WEAR-RESISTANT CAST  
IRONS.  
BELYAKOVA, P. E. BRODSKII, B. R.  
VORONIN, L. K. KARTUZOVA, L. M.  
KORYTINA, S. F. NEIMARK, A. E.  
LITEINOE PROIZVOD.  
( 12 ), 20-2, 1973.
- T076749**  
VISCOSITIES OF LIQUID IRON AND STEELS.  
NARITA, K. ONGYE, T.  
PRCC. INT. CONF. SCI. TECHNOL. IRON STEEL  
( PT. 1 ), 400-3, 1971.
- T077142**  
DEVELOPMENT OF COMPOSITE STRUCTURES IN EUROPE.  
FIELDING, J. HOLT, A.  
PRCC. JAGAMORE ARMY MATER. RES. CONF., 6TH  
145-148, 1960.  
( AD-233 158 )
- T077222**  
DILATOMETER FOR MEASUREMENTS OF THE EXPANSION OF  
THE EXPANSION OF STRUCTURAL MATERIALS IN THE  
TEMPERATURE RANGE 2-77 K.  
PETENKO, A. S. KRAVCHENKO, S. F.  
INSTRUM. EXP. TECH., USSR  
( 3 ), 954-6, 1973.  
( ENGLISH TRANSLATION OF FIZ. TEKH. EKSP., ( 3 ),  
244-50, 1973; FOR ORIGINAL SEE TPRC NO. 72004 )
- T079286**  
FAKE (ART) METALS IN CAST CHROMIUM - ALUMINUM STEEL.  
VASHCHENKO, K. I. ZHUK, V. YA. LYUTYI, V. A.  
ILATONOV, E. A.  
TEKHNOL. OUKAH. FIZI/VOD.  
( 11 ), 46-2, 1974.



- T079366**  
EFFECT OF RARE EARTH METAL ADDITIVES ON THE DENSITY OF STEELS.  
ETELIS, L. S. GLADKOV, M. I.  
STASYUK, G. F. KYABOVA, D. Z.  
DOROVSKII, O. B. KARMLIN, YU. N.  
LITEINIE PROIZVOD.  
( 6 ), 19-20, 1974.  
( FOR ENGLISH TRANSLATION SEE T91291 )
- T080497**  
EMISSIVITY OF STAINLESS STEEL 1KH18N9T WITH VARIOUS KINDS OF SURFACE TREATMENT.  
KIRGIZBAEV, O. A. ZAKHICOV, R. A.  
KORUNCY, YU. I.  
GELIOTEKHNIKA  
( 3 ), 80-1, 1974.  
( FOR ENGLISH TRANSLATION SEE T92650 )
- T080643**  
THERMAL EXPANSION - METALLIC ELEMENTS AND ALLOYS.  
TOULOUKIAN, Y. S. KIRBY, R. Y. TAYLOR, R. E.  
DESAI, P. D.  
THERMOPHYSICAL PROPERTIES RESEARCH CENTER, DATA BOOKS  
12, 1440PP., 1975.
- T081175**  
THE X-RAY MEASUREMENT OF RESIDUAL STRESS IN STAINLESS STEEL USED AS CLOTHING METAL.  
HARABUSA, T. FUJIMURA, H.  
ZAIRYO  
19 ( 207 ), 1022-7, 1970.
- T081232**  
SPECTRAL PROPERTIES OF IRON - CHROMIUM ALLOYS IN THE 3.254-17 MICRON SPECTRAL REGION.  
GORBAN, N. YA. STASHCHUK, V. S.  
CHERNOMORETS, M. F.  
OPT. SPECTROS.  
33 ( 5 ), 568-70, 1975.  
( ENGLISH TRANSLATION OF OPT. SPEKTROSK., 38 ( 5 ), 968-93, 1975; FOR ORIGINAL SEE T81706 )
- T081263**  
THERMOPHYSICAL PROPERTIES OF STEEL SINTER UNDER VARIOUS TEMPERATURES.  
SEVERDENKO, V. P. MAKUSHOK, E. M.  
RAVIN, A. N.  
IZV. AKAU. NAUK BELORUS., SSR  
( 1 ), 33-7, 1974.
- T081706**  
OPTICAL PROPERTIES OF IRON - CHROMIUM ALLOYS IN THE 3.254-17 MICRON SPECTRAL REGION.  
GORBAN, N. YA. STASHCHUK, V. S.  
CHERNOMORETS, M. F.  
OPT. SPEKTROSK.  
38 ( 5 ), 968-93, 1975.  
( FOR ENGLISH TRANSLATION SEE T91232 )
- T082650**  
EMISSIVE POWER OF STAINLESS STEEL 1KH18N9T AS A FUNCTION OF SURFACE TREATMENT.  
KIRGIZBAEV, O. A. ZAKHICOV, R. A.  
KORUNCY, YU. I.  
APPL. SOLAR ENERGY, USSR  
10 ( 3 ), 61-2, 1974.  
( ENGLISH TRANSLATION OF GELIOTEKHNIKA, 10 ( 3 ), 80-1, 1974; FOR ORIGINAL SEE T80497 )
- T083671**  
MEASURING THE NORMAL SPECTRAL INFRARED EMISSIVITY OF STRUCTURAL MATERIALS.  
ANDYUTOV, L. N. PAVLYUKOV, A. K.  
KHOLGOV, G. K.  
J. ENG. PHYS., USSR  
24 ( 3 ), 275-9, 1973.  
( ENGLISH TRANSLATION OF INZH. FIZ. ZH., 24 ( 3 ), 393-9, 1973; FOR ORIGINAL SEE T71162 )
- T084262**  
RECENT PROGRESS IN THE PRODUCTION AND FABRICATION OF STAINLESS STEELS, WITH PARTICULAR REFERENCE TO SHEET AND STRIP.  
AUTHOR ANON  
METALLURGIA ( THE BRITISH JOURNAL OF METALS )  
42 ( 204 ), 367-71, 1950.
- T084942**  
EXPERIMENTAL STUDY OF THE THERMAL EXPANSION OF STEEL 1KH18N9T.  
PETUKHOV, V. A. GRENHOVSKI, V. YA.  
MOZGOVPI, A. G.  
TEPLONEFOTIKA ( MOSCOW )  
( 3 ), 64-6, 1976.  
( FOR ENGLISH TRANSLATION SEE T92009 )
- T085006**  
DETERMINATION OF THERMAL CONDUCTIVITY, ELECTRIC CONDUCTIVITY, AND EMISSIVITY OF A CONDUCTING CYLINDER WITH INTERNAL HEAT SOURCES.  
SMIRNOV, E. V.  
TEPLOFIZ. VYS. TEMP.  
14 ( 2 ), 438, 1976.  
( FOR ENGLISH TRANSLATION SEE T93779 )
- T085056**  
THERMAL CONDUCTIVITY AND THERMAL DIFFUSIVITY OF PLASMA-SPRAYED STAINLESS STEEL.  
IGNATENKO, G. K. MAKSIMOVSKII, V. V.  
PASHKINA, M. I.  
J. ENG. PHYS., USSR  
24 ( 1 ), 86-7, 1973.  
( ENGLISH TRANSLATION OF INZH. FIZ. ZH., 24 ( 1 ), 112-4, 1973; FOR ORIGINAL SEE T70436 )
- T085167**  
INVESTIGATION OF THE OPTICAL PROPERTIES OF STAINLESS STEELS DURING HEATING BY SOLAR RADIATION TO HIGH TEMPERATURES.  
ZAKHICOV, R. A. KIRGIZBAEV, O. A.  
UMAROV, G. YA.  
EUROPEAN CONF. ON THERMOPHYSICAL PROPERTIES OF SOLIDS AT HIGH TEMP., 5TH  
10PP., 1976.
- T085754**  
A CALORIMETRIC AND MASS-SPECTROMETRIC STUDY OF SOLID IRON - CHROMIUM ALLOYS.  
NORMANTON, A. S. MOORE, R. H. ARGENT, E. B.  
MET. SCI.  
10 ( 6 ), 207-13, 1976.
- T087923**  
CALORIMETRIC AND NUCLEAR GAMMA-RESONANCE STUDY OF AGING OF IRON - CHROMIUM - COBALT ALLOYS.  
OVCHINNIKOV, V. V. ZVIGINTSEV, N. V.  
LITVINOV, V. S. CSMINKIN, V. A.  
FIZ. MET. METALLURGE.  
42 ( 2 ), 310-17, 1976.  
( ENGLISH TRANSLATION SEE T92074 )
- T088086**  
SKELETON THERMAL CONDUCTIVITY OF METALLOFIBROUS WICKS OF HEAT PIPES.  
SEMEVA, M. G. KUSTERNOV, A. G.  
ZAKHICOV, V. K. MCROZ, A. L. SHEVCHUK, M. S.  
INZH.-FIZ. ZH.  
31 ( 4 ), 541-6, 1976.  
( FOR ENGLISH TRANSLATION SEE T92046 )
- T089345**  
THE SPECIFIC HEAT OF STAINLESS STEELS BETWEEN 4 K AND 300 K.  
CORRAN, J. M. MITCHEM, N. I.  
FACG. INT. CRYOG. ENG. CONF.  
6, 342-4, 1976.
- T089389**  
EVIDENCE FOR SPLIT BANDS FROM ELECTRONIC SPECIFIC HEAT AND ELECTRICAL TRANSPORT DATA IN IRON - VANADIUM AND IN OTHER IRON AND NICKEL ALLOYS.  
BERGER, L.  
AIP CONF. PROC.  
( 34 ), 355-7, 1976.
- T089523**  
SPECIAL STATE STANDARD OF THE UNIT OF THERMAL CONDUCTIVITY OF SOLIDS IN THE TEMPERATURE RANGE BETWEEN 50 K AND 300 K.  
ZHURAVICH, V. A. CHASPKIN, YU. R.  
IZPER. TEKH.  
19 ( 3 ), 28-31, 1976.  
( FOR ENGLISH TRANSLATION SEE T89524 )

- T094524  
SPECIAL STATE STANDARD OF THE UNIT OF THERMAL CONDUCTIVITY OF SOLIDS IN THE TEMPERATURE RANGE BETWEEN 50 K AND 300 K.  
ZHONCHICH, V. A. CHASHKIN, YU. R.  
MEAS. TECH., USSR  
19 ( 3 ), 360-5, 1976.  
( ENGLISH TRANSLATION OF IZMER. TEKH., 19 ( 3 ), 28-31, 1976; FOR ORIGINAL SEE T09523 )
- T090950  
DETERMINATION OF THERMAL CONDUCTIVITY, ELECTRICAL CONDUCTIVITY, RADIATIVE CAPABILITY OF ELECTRICALLY CONDUCTING CYLINDERS WITH INTERNAL HEAT SOURCES.  
SHIRNOV, YE. V.  
DEPOSITED DOCUMENTS, VINITI  
44PF., 1976.  
( VINITI-062-76 )
- T091291  
INFLUENCE OF RARE EARTH METAL ADDITIONS ON DENSITY OF STEELS.  
EISELIS, S. GLADKOV, M. I. STASYUK, G. F.  
RYABOVA, D. Z. BUKOVSKII, O. B.  
KARMAKIN, YU. N.  
RUSS. CASTINGS PROD.  
( 6 ), 251-2, 1974.  
( ENGLISH TRANSLATION OF LITENIE PROIZVOD., ( 6 ), 19-23, 1974; FOR ORIGINAL SEE T79366 )
- T091453  
SOME RESULTS OF STUDYING THE EMISSIVITY OF RESISTANCE-HEATED ALLOYS.  
BUREKCHSKI, T.  
METALCZNA. OBRZKA CIEPLNA  
21, 24-8, 1976.
- T091631  
POSSIBLE APPLICATIONS OF ABSORBING LAYERS, PARTICULARLY THOSE PRODUCED BY CATHODIC ION COATING IN THE METALLOGRAPHY OF IRON ALLOYS.  
ROBUSCH, G. ENGLE, G. BUEHLER, M. E.  
PRAKT. METALLOGR.  
14 ( 2 ), 65-86, 1977.
- T092009  
AN EXPERIMENTAL INVESTIGATION OF THE THERMAL EXPANSION OF INCONEL STEEL.  
PETUKHOV, V. A. CHEKHOVSKOI, V. YA.  
MOZGOV, A. G.  
THEM. ENG., USSR  
23 ( 3 ), 75, 1976.  
( ENGLISH TRANSLATION OF TEPLONENGETIKA, 23 ( 3 ), 64-5, 1976; FOR ORIGINAL SEE T09442 )
- T092046  
SCHEMATIC THERMAL CONDUCTIVITY OF FIBER-METAL HEAT-PIPE WICKS.  
SEMEN, M. G. KOSTOROV, A. G.  
ZAKHAROV, V. K. MOROZ, A. L. SHEVCHUK, M. S.  
J. ENG. PHYS., USSR  
31 ( 4 ), 1121-5, 1976.  
( ENGLISH TRANSLATION OF INZH. FIZ. ZH., 31 ( 4 ), 501-6, 1976; FOR ORIGINAL SEE T08066 )
- T092074  
CALCULIMETRIC AND NUCLEAR GAMMA RESONANCE INVESTIGATION OF THE AGEING OF Fe-Cr - CHROMIUM - COBALT ALLOYS.  
ZVONNIKOV, V. V. ZVONNIKOV, N. V.  
LITVINOV, V. S. OSMINKIN, V. A.  
PHYS. METALS METALLOGR., USSR  
42 ( 2 ), 71-8, 1976.  
( ENGLISH TRANSLATION OF FIZ. METAL METALLOVED., 42 ( 2 ), 310-17, 1976; FOR ORIGINAL SEE T07123 )
- T092275  
EFFECT OF THICKNESS OF OXIDE FILM ON THE EMISSIVITY AND REFLECTIVITY OF HEAT-RESISTANT METALS AND ALLOYS.  
ZHONCHICH, V. A. YAGUNOV, K. A.  
INZH. FIZ. ZH.  
34 ( 1 ), 34-9, 1978.  
( FOR ENGLISH TRANSLATION SEE T94209 )
- T092974  
MEASUREMENT OF THERMAL PROPERTIES OF SELECTED CZECHOSLOVAK MATERIALS AT LOW TEMPERATURES.  
HANEK, Z. BILCHOT, J. HOLANEC, S.  
HUVUTNY, V. RYSKA, A.  
ELEKTROTECH. DDT.  
65 ( 2 ), 48-13, 1977.
- T093488  
INFLUENCE OF SURFACE PROPERTIES ON THE TOTAL EMISSIVITY OF STEEL.  
NEULY, G. WOHNE, B.  
SYMP. THERMOPHYSICAL PROPERTIES, 7TH.  
25L-5PP., 1977.
- T093779  
DETERMINATION OF THE THERMAL CONDUCTIVITY, THE ELECTRICAL CONDUCTIVITY, AND THE RADIATING POWER OF AN ELECTRICALLY CONDUCTING CYLINDER WITH INTERNAL SOURCES OF HEAT.  
SHIRNOV, E. V.  
HIGH TEMP., USSR  
14 ( 2 ), 431, 1976.  
( ENGLISH TRANSLATION OF TEPLCFIZ. VYS. TEMP., 14 ( 2 ), 438, 1976; FOR ORIGINAL SEE T05006 )
- T093911  
TEMPERATURE DEPENDENCE OF THE LINEAR EXPANSION COEFFICIENTS OF SOME IRON - CHROMIUM - NICKEL ALLOYS IN THE TEMPERATURE RANGE 4-2 TO 300 K.  
ILICHEV, V. YA. POPOV, V. P.  
SKIBINA, L. V. CHERNIK, M. M.  
CRYOGENICS  
18 ( 2 ), 90-2, 1978.
- T094209  
EFFECT OF THICKNESS OF OXIDE FILM ON THE EMISSIVITY AND REFLECTIVITY OF HEAT-RESISTANT METALS AND ALLOYS.  
ZHONCHICH, V. A. YAGUNOV, K. A.  
J. ENG. PHYS., USSR  
34 ( 1 ), 20-3, 1978.  
( ENGLISH TRANSLATION OF INZH. FIZ. ZH., 34 ( 1 ), 34-9, 1978; FOR ORIGINAL SEE T92275 )
- T094225  
THERMAL EXPANSION OF IRON - CHROMIUM - NICKEL ALLOYS OF VARIOUS STABILITY AT LOW TEMPERATURES.  
ILICHEV, V. YA. POPOV, V. P.  
SKIBINA, L. V. CHERNIK, M. M.  
FIZ. MET. METALLOVED.  
45 ( 2 ), 327-32, 1978.  
( FOR ENGLISH TRANSLATION SEE T94814 )
- T095465  
MEASUREMENTS OF THE TOTAL EMISSIVITY OF AUSTENITIC STEELS.  
KRINNINGER, M.  
WAERME STOFFUEBERTRAG.  
3, 139-45, 1970.  
( FOR ENGLISH TRANSLATION SEE T95983 )
- T095983  
MEASUREMENTS OF THE TOTAL EMISSIVITY OF AUSTENITIC STEELS.  
KRINNINGER, M.  
RISLEY TRANSLATIONS  
1972.  
( ENGLISH TRANSLATION OF WAERME STOFFUEBERTRAG, 3, 139-45, 1970; FOR ORIGINAL SEE T95465 )  
( RISLEY TRANS-10. )
- T096167  
THERMAL EXPANSION, YOUNG'S MODULUS AND MAGNETOSTRICTION OF A STAINLESS IRON - CHROMIUM - NICKEL ALLOY IN THE RANGE 80-280 K.  
GASANOV, M. A. FAKILOV, I. G.  
PHYS. METALS METALLOGR.  
35 ( 3 ), 206-2, 1973.  
( ENGLISH TRANSLATION OF FIZ. METAL. METALLOVED., 35 ( 3 ), 656-9, 1973; FOR ORIGINAL SEE T71053 )
- T096180  
A DILATOMETER FOR MEASURING THE EXPANSION OF CONSTRUCTIONAL MATERIALS IN THE TEMPERATURE RANGE 2 TO 77 K.  
PETRENKO, N. S. KRAVCHENKO, S. F.  
CRYOGENICS  
13 ( 12 ), 730-2, 1973.
- T096885  
DETERMINATION OF THE HEAT CAPACITY OF A GROUP OF METALLIC ALLOYS.  
BANSKII, YU. P. EGOROV, G. M.  
DEPOSITED DOC., VINITI  
43AP., 1973.  
( VINITI-7506-73 )

T097123

SPECIFIC HEATS OF AUSTENITIC STEELS IN THE  
TEMPERATURE RANGE 4 TO 30 K.

CURSAN, J. M. MITCHEM, N. I.

CRYOGENICS

19 ( 1 ), 11-16, 1979.

T098162

THERMOPHYSICAL PROPERTIES OF FERROUS STRUCTURAL  
ALLOYS.

MOEN, R. A.

HANFORD ENG. DEV. LAB., RICHLAND, WASHINGTON

142PP., 1978.

( HDL-THE-78-47 )

T098438

MEASUREMENT OF THE LOW TEMPERATURE MAGNETIC  
SUSCEPTIBILITY AND HEAT CONDUCTIVITY OF STAINLESS  
STEELS.

YAN, S. S. LU, G. ZHOU, YA. QUIN.,

ZHANG, J. D.

WULI

7 ( 5 ), 288-91, 1978.

T098515

THERMAL CONDUCTIVITY AND MECHANICAL PROPERTIES OF  
SOME CONSTRUCTION ALLOYS AT LOW-TEMPERATURES.

KOZINET, V. V. OGNEVA, E. M.

ZLOBINATSEV, G. M. MERISOV, B. A.

KRIUG. ELEKTRODIN. ENERG.

44-50, 1977.

T098814

LOW TEMPERATURE THERMAL EXPANSION OF  
IRON - CHROMIUM - NICKEL ALLOYS OF DIFFERENT  
STABILITIES.

ILYICHEV, V. YA. POPOV, V. P.

SKIBINA, L. V. GHERNIK, M. M.

PHYS. METALS METALLOGR.

45 ( 2 ), 83-8, 1978.

( ENGLISH TRANSLATION OF FIZ. MET. METALLOVED., 45  
( 2 ), 327-32, 1978; FOR ORIGINAL SEE T94225 )

T095962

DYNAMIC AND STATIC EMISSIVITY CHARACTERISTICS OF  
RESISTANCE HEATING ALLOYS.

BURAKOWSKI, T.

METALCZN. OPODOKA CIEPLNA

35, 19-23, 1978.

T099799

STUDY OF LOW-TEMPERATURE MATERIALS. 1. THERMAL AND  
MECHANICAL PROPERTIES OF STRUCTURAL SUPPORT MATERIALS  
AT CRYOGENIC TEMPERATURES.

KAWATE, Y. HOKIUCHI, T. SONOI, H.

JUI, T.

TEION KOGAKU

14 ( 4 ), 164-77, 1979.

T099942

EFFECT OF COLD DEFORMATION AND AGEING ON THE THERMAL  
CONDUCTIVITY, ELECTRICAL RESISTIVITY AND LORENTZ  
NUMBER OF CHROMIUM NICKEL AUSTENITIC STEELS.

MEYMARK, B. YE. BYKOVA, T. L.

PHYS. METALS METALLOGR.

15 ( 1 ), 140-2, 1963.

( ENGLISH TRANSLATION OF FIZ. MET. METALLOVED.

15 ( 1 ), 150-1, 1963; FOR ORIGINAL SEE T27623 )

T100263

INVESTIGATION OF THE THERMAL-RADIATION PROPERTIES OF  
TECHNICAL ROUGH METAL SURFACES.

MOEFNER, D. NUEN, G.

HIGH TEMP. HIGH PRESSURES

12 ( 4 ), 383-91, 1979.

T100310

THE DETERMINATION OF SPECIFIC HEAT ( OF STEELS ).

GREY, T. LAMBERT, N.

METALL. REP. CAN

54, 23-30, 1979.

T101222

EVALUATION OF THE THERMAL CONDUCTIVITY OF NICKEL  
ALLOY BOILER TUBING.

PRICE, E. G.

ATOMIC ENERGY OF CANADA, LIMITED

1- PP., 1976.

( T101-344 )

BIBLIOGRAPHY ON ELECTRONIC PROPERTIES

(WITH E PREFIX)

- E53108  
RESEARCH IN THE TEMPERATURE DEPENDENCE OF THE  
THERMAL AND ELECTRICAL CONDUCTIVITY OF STEELS AND  
IRON-BASED METALLURGICAL ALLOYS.  
MIRYUKOV, V. YE.  
VESTN. MOSK. UNIV., FIZIKA  
( 6 ), 29-43, 1951.  
( FOR ENGLISH TRANSLATION SEE E53109 )
- E53109  
RESEARCH IN THE TEMPERATURE DEPENDENCE OF THE  
THERMAL AND ELECTRICAL CONDUCTIVITY OF STEELS AND  
IRON-BASED METALLURGICAL ALLOYS.  
MIRYUKOV, V. YE.  
FOREIGN TECHNOLOGY DIVISION, WRIGHT-PATTERSON  
AIR FORCE BASE, OHIO  
1891, 1972.  
( ENGLISH TRANSLATION OF VESTN. MOSK. UNIV., FIZIKA  
( 6 ), 29-43, 1951; FOR ORIGINAL SEE E53108 )  
( AD-744 290, FTD-HC-23-1942-71, AVAIL. COC )
- E51828  
EFFECT OF ALLOYING AND PHASE COMPOSITION ON THE  
PROPERTIES OF MARAGING STAINLESS STEELS.  
KONDRATOV, V. M.  
METALLOVED. TERM. OBRAB. MET. ( USSR )  
( 6 ), 43-7, 1973.  
( FOR ENGLISH TRANSLATION SEE E51829 )
- E51829  
EFFECT OF ALLOYING AND PHASE COMPOSITION ON THE  
PROPERTIES OF MARAGING STAINLESS STEELS.  
KONDRATOV, V. M.  
MET. SCI. HEAT TREAT.  
( 1-2 ), 135-9, 1973.  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB.  
MET., ( 2 ), 43-7, 1973; FOR ORIGINAL SEE E51828 )
- E56460  
EXTRAPOLATION OF THE LANGMUIR S-CURVE TO CAESIUM  
PRESSURES OF 10-100 TORR.  
JUBINSKII, V. E., LEBEDEV, S. YA.  
ZH. TEKH. FIZ.  
( 1 ), 133-41, 1974.  
( FOR ENGLISH TRANSLATION SEE E66461 )
- E56461  
EXTRAPOLATION OF THE LANGMUIR S-CURVE TO CAESIUM  
PRESSURES OF 10-100 TORR.  
JUBINSKII, V. E., LEBEDEV, S. YA.  
SOV. PHYS. TECH. PHYS.  
( 1 ), 91-3, 1974.  
( ENGLISH TRANSLATION OF ZH. TEKH. FIZ., 44 ( 1 ),  
133-41, 1974; FOR ORIGINAL SEE E66460 )
- E57501  
PROPERTIES OF STAINLESS STEELS OF THE TRANSITION  
CLASS DURING COLD PLASTIC DEFORMATION.  
HURKIN, V. S., SHEIN, A. S., DAYAKOV, YU. I.  
METALLOVED. TERM. OBRAB. MET.  
( 12 ), 31-3, 1974.  
( FOR ENGLISH TRANSLATION SEE E33240 )
- E582654  
MELTING AND HOT-WORKING OF FULLY AUSTENITIC STEELS  
CONTAINING MOLYBDENUM AND NITROGEN WITH EMPHASIS ON  
PIECES OF LARGE DIMENSIONS AND THEIR PROPERTIES.  
BITTER, H. G.  
JAH. ( DEUT. EDLSTÄHLWERKE )-TECH. BER.  
( 2 ), 108-13, 1973.
- E587889  
EFFECT OF THE COOLING RATE ON THE STRUCTURE AND  
PROPERTIES OF 13 PERCENT CHROMIUM STEELS.  
VASCHILLO, T. P., YAROSHEVSKAYA, V. N.  
MET. KOKSOKHIM.  
( 6 ), 59-65, 1973.
- E591607  
EFFECT OF THE ELECTRICAL STRENGTH OF COMPRESSED  
SULFUR HEXAFLUORIDE WITH THE MATERIAL OF ELECTRODES  
AND THEIR SURFACE STRUCTURE.  
GORJUNOV, B. A.  
ZH. TEKH. FIZ.  
( 1 ), 111-14, 1975.  
( FOR ENGLISH TRANSLATION SEE E99720 )
- E59307  
STRUCTURAL STATE OF THE SURFACE LAYER OF  
CHROMIUM - MOLYBDENUM STEEL 11KH18M.  
KARAKOVA, A. G., KOFTOV, V. S., KHENKIN, M. L.,  
GAPRINDASHVILI, A. I., GUSEVA, G. M.  
METALLOVED. TERM. OBRAB. MET.  
( 8 ), 71-3, 1974.  
( FOR ENGLISH TRANSLATION SEE E93239 )
- E589720  
DIELECTRIC STRENGTH OF COMPRESSED SULFUR  
HEXAFLUORIDE AND THE ELECTRODE MATERIAL AND SURFACE  
STRUCTURE.  
GORJUNOV, B. A.  
SOV. PHYS. TECH. PHYS.  
( 1 ), 66-7, 1975.  
( ENGLISH TRANSLATION OF ZH. TEKH. FIZ., 45 ( 1 ),  
111-14, 1975; FOR ORIGINAL SEE E88607 )
- E593239  
CHARACTERISTIC FEATURES OF THE STRUCTURAL CONDITON  
OF THE SURFACE LAYER OF STEEL 11KH18M.  
KARAKOVA, A. G., KOFTOV, V. S., KHENKIN, M. L.,  
GAPRINDASHVILI, A. I., GUSEVA, G. M.  
METAL SCI. HEAT TREAT. METALS, USSR  
( 8 ), 749-12, 1974.  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB.  
MET., ( 8 ), 71-3, 1974; FOR ORIGINAL SEE E89300 )
- E593240  
PROPERTIES OF STAINLESS STEELS OF THE TRANSITION  
CLASS AFTER COLD PLASTIC DEFORMATION.  
HURKIN, V. S., SHEIN, A. S., DAYAKOV, YU. I.  
METAL SCI. HEAT TREAT. METALS, USSR  
( 12 ), 1971-3, 1974.  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB.  
MET., ( 12 ), 31-3, 1974; FOR ORIGINAL SEE E70501 )
- E595436  
OPTICAL PROPERTIES OF IRON CHROMIUM ALLOYS IN THE  
0.254-17 MICROMETERS SPECTRAL REGION.  
GORBAN, N. YA., STASHCHUK, V. S.,  
CHERNOMORETS, M. F.  
OPT. SPEKTROSK.  
( 5 ), 988-93, 1975.  
( FOR ENGLISH TRANSLATION SEE E95437 )
- E595437  
OPTICAL PROPERTIES OF IRON CHROMIUM ALLOYS IN THE  
0.254-17 MICROMETERS SPECTRAL REGION.  
GORBAN, N. YA., STASHCHUK, V. S.,  
CHERNOMORETS, M. F.  
OPT. SPECTROSC. USSR  
( 5 ), 568-70, 1975.  
( ENGLISH TRANSLATION OF OPT. SPEKTROSK., 38 ( 5 ),  
988-93, 1975; FOR ORIGINAL SEE E95436 )
- E595442  
ELLIPSOIDOMETRIC MEASUREMENTS OF OPTICAL CONSTANTS AND  
THICKNESS OF PASSIVE FILMS FORMED ON 16-8 STAINLESS  
STEEL.  
MATSUDA, S., SUGIMOTO, K., SAWADA, Y.  
NIPPON KINZOKU GAKKAISHI  
( 3 ), 548-56, 1975.  
( FOR ENGLISH TRANSLATION SEE E119617 )
- E100899  
MAGNETIC PROPERTIES OF STAINLESS STEEL 18KH18T.  
GASANOV, M. A., ACHASHEV, L. N.,  
FAYDOV, I. G.  
FIZ. METAL. METALLOVED.  
( 2 ), 424-6, 1972.  
( FOR ENGLISH TRANSLATION SEE E101954 )
- E101934  
VISCOSITY AND ELECTRICAL CONDUCTIVITY OF  
ALUMINUM - IRON - CHROMIUM MELTS.  
LEVIN, E. S., AYUSHINA, G. D.  
IZV. AKAU. NAUK SSSR, METAL.  
( 6 ), 52-7, 1973.  
( FOR ENGLISH TRANSLATION SEE E101935 )
- E101935  
VISCOSITY AND ELECTRICAL CONDUCTIVITY OF  
ALUMINUM - IRON - CHROMIUM MELTS.  
LEVIN, E. S., AYUSHINA, G. D.  
FIZ. MET., USSR  
( 1 ), 36-41, 1970.  
( ENGLISH TRANSLATION OF IZV. AKAU. NAUK SSSR,  
METAL., ( 6 ), 52-7, 1973; FOR ORIGINAL SEE E101934 )

- E101937  
THE THERMOPHYSICAL PROPERTIES OF SICHRONAL STEELS.  
NEIMARK, B. E. BELYAKOVA, P. E.  
KANTUZOVA, L. M. MERKUL'EV, A. N.  
TEPLCENERGETIKA  
19 (1), 46-4, 1972.  
( FOR ENGLISH TRANSLATION SEE E101938 )
- E101938  
THE THERMOPHYSICAL PROPERTIES OF SICHRONAL STEELS.  
NEIMARK, B. E. BELYAKOVA, P. E.  
KANTUZOVA, L. M. MERKUL'EV, A. N.  
TEPLCENERGETIKA  
19 (1), 64-4, 1972.  
( ENGLISH TRANSLATION OF TEPLCENERGETIKA, 19 (1), 46-4, 1972; FOR ORIGINAL SEE E101937 )
- E101954  
MAGNETIC PROPERTIES OF STAINLESS STEEL KH18N10T.  
GASANOV, M. A. ROMASHEV, L. N.  
FAKLOOV, I. G.  
PHYS. METALS METALLOGR.  
33 (2), 190-1, 1972.  
( ENGLISH TRANSLATION OF FIZ. METAL. METALLOVED., 33 (2), 424-6, 1972; FOR ORIGINAL SEE E100899 )
- E103679  
THE LOW TEMPERATURE MAGNETIC PROPERTIES OF  
AUSTENITIC IRON - CHROMIUM - NICKEL ALLOYS. 2.  
THE PREDICTION OF NEEL TEMPERATURES AND MAXIMUM  
SUSCEPTIBILITIES.  
WARRIES, L. A. A. KING, H. W.  
CRYOGENICS  
16 (11), 659-67, 1976.
- E104903  
IMPROVEMENT OF THE MAGNETIC PROPERTIES OF THE IRON  
CHROMIUM ALLOY 16KH ( 16 PERCENT CHROMIUM ).  
PUZEY, I. M. KLEVITSKAYA, G. Z.  
ZUYEVA, M. M.  
IZV. AKAD. NAUK SSSR, METAL.  
( 4 ), 258- , 1971.  
( FOR ENGLISH TRANSLATION SEE E104904 )
- E104904  
IMPROVEMENT OF THE MAGNETIC PROPERTIES OF THE IRON  
CHROMIUM ALLOY 16KH ( 16 PERCENT CHROMIUM ).  
PUZEY, I. M. KLEVITSKAYA, G. Z.  
ZUYEVA, M. M.  
RUSS. MET., METALLY, USSR  
( 4 ), 181-4, 1971.  
( ENGLISH TRANSLATION OF IZV. AKAD. NAUK SSSR, METAL.  
( 4 ), 258- , 1971; FOR ORIGINAL SEE E104903 )
- E104907  
SOME PHYSICO-CHEMICAL PROPERTIES OF LIQUID IRON  
CHROMIUM ALUMINUM ALLOYS.  
LEVIN, E. S. SYUSHINA, G. O.  
IZV. AKAD. NAUK SSSR, METAL.  
( 2 ), 96- , 1972.  
( ENGLISH TRANSLATION SEE E104908 )
- E104908  
SOME PHYSICO-CHEMICAL PROPERTIES OF LIQUID IRON  
CHROMIUM ALUMINUM ALLOYS.  
LEVIN, E. S. SYUSHINA, G. O.  
RUSS. MET., METALLY, USSR  
( 2 ), 72-6, 1972.  
( ENGLISH TRANSLATION OF IZV. AKAD. NAUK SSSR, METAL.  
( 2 ), 96- , 1972; FOR ORIGINAL SEE E104907 )
- E104911  
THE NEW HEAT-RESISTANT SPRING ALLOY 70 N KH B M YU.  
BELLV, D. G. PLATOVA, S. N.  
HARLECYAN, L. V.  
METALLOVED. TERM. OBRAB. METAL.  
( 2 ), 25-6, 1970.  
( FOR ENGLISH TRANSLATION SEE E104912 )
- E104912  
THE NEW HEAT-RESISTANT SPRING ALLOY 70 N KH B M YU.  
BELLV, D. G. PLATOVA, S. N.  
HARLECYAN, L. V.  
METAL SCI. HEAT TREAT. METALS, USSR  
( 2 ), 112-5, 1970.  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB.  
METAL., ( 2 ), 25-6, 1970; FOR ORIGINAL SEE E104911 )
- E104913  
A NEW CHROMIUM - MANGANESE - NICKEL STEEL: C K H 1 8  
G 8 N 2 T ( K O-3 ).  
ZHADAN, T. A.  
METALLOVED. TERM. OBRAB. METAL.  
( 3 ), 34-41, 1970.  
( FOR ENGLISH TRANSLATION SEE E104914 )
- E104914  
A NEW CHROMIUM - MANGANESE - NICKEL STEEL: G K H 1 8  
G 8 N 2 T ( K U-3 ).  
ZHADAN, T. A.  
METAL SCI. HEAT TREAT. METALS, USSR  
( 3 ), 221-3, 1970.  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB.  
METAL., ( 3 ), 34-41, 1970; FOR ORIGINAL SEE  
E104913 )
- E104917  
FREE CUTTING NONMAGNETIC STAINLESS STEEL O K H 1 7 M  
1 6 ( E P 626 ).  
BABAKOV, A. A. CHOBANYAN, A. A.  
PETROVA, M. P. AVUKH, E. L.  
METALLOVED. TERM. OBRAB. METAL.  
( 9 ), 16-9, 1971.  
( FOR ENGLISH TRANSLATION SEE E104918 )
- E104918  
FREE CUTTING NONMAGNETIC STAINLESS STEEL O K H 1 7 M  
1 6 ( E P 626 ).  
BABAKOV, A. A. CHOBANYAN, A. A.  
PETROVA, M. P. AVUKH, E. L.  
METAL SCI. HEAT TREAT. METALS, USSR  
( 9 ), 726-8, 1971.  
( ENGLISH TRANSLATION OF METALLOVED. TERM. OBRAB.  
METAL., ( 9 ), 16-9, 1971; FOR ORIGINAL SEE E104917 )
- E105146  
EFFECT OF COLD-FORGING ON THE MECHANICAL AND  
MAGNETIC PROPERTIES OF STAINLESS STEELS.  
DIETRICH, H. HEIPANN, W. STROM, F. M.  
TEN TECH. BER.  
2 (1), 61-9, 1976.
- E106222  
EXPERIMENTAL STUDIES OF THERMAL AND ELECTRIC  
CONDUCTION OF MATERIALS MADE OF METAL FIBERS.  
KOSTORNOV, A. G. SHEVCHUK, M. S.  
LEZHENIN, F. F. FEDORCHENKO, I. M.  
FIZOSHK. METALL. ( KIEV )  
( 3 ), 45-9, 1977.  
( FOR ENGLISH TRANSLATION SEE E100531 )
- E106904  
THERMODYNAMIC CRITICAL AMPLITUDES IN THE DIPOLAR  
CRITICAL REGION OF A UNIAxIAL FERROMAGNET.  
KOTZLER, J. EISELT, G.  
PHYS. LETT.  
58 A (1), 69-72, 1976.
- E107271  
MAGNETIC SUSCEPTIBILITY AND MAGNETIC MOMENT OF  
IRON - CHROMIUM ALLOYS.  
KOCHE, V. E. FINKELBERG, S. A.  
FANKOVA, G. A.  
FIZ. MET. METALLOVED.  
42 (4), 895-6, 1976.  
( FOR ENGLISH TRANSLATION SEE E120411 )
- E107557  
EFFECT OF REDISTRIBUTION OF ATOMS IN SUBMICROVOLUMES  
ON THE PROPERTIES OF ALLOY 25KH15.  
GRUZIN, P. L. LI, YU. A. RAEVSKAYA, M. N.  
ROMIONOV, YU. L. SARSENIN, O. S.  
FIZ. MET. METALLOVED.  
42 (3), 572-7, 1976.
- E107558  
FERROMAGNETIC RESONANCE IN IRON - CHROMIUM SINGLE  
CRYSTALS.  
PKATILOV, V. S. PUZEI, I. M.  
IVANOV-SPOLENSKII, G. A. MAKAROV, V. P.  
KLIMOVITSKII, I. K.  
FIZ. MET. METALLOVED.  
43 (5), 1115-16, 1977.  
( FOR ENGLISH TRANSLATION SEE E123638 )

- E104531  
AN EXPERIMENTAL INVESTIGATION INTO THE THERMAL AND ELECTRICAL CONDUCTIVITIES OF METAL FIBER MATERIALS.  
KOSTOMOV, A. G. SHEVCHUK, M. S.  
LEZHENIN, F. F. FEDORCHENKO, I. M.  
SOV. POWDER MET. METAL CERAM.  
( 3 ), 194-7, 1977.  
( ENGLISH TRANSLATION OF POROSH. MET., ( 3 ), 45-9, 1977; FOR ORIGINAL SEE E106222 )
- E108551  
PROPERTIES OF FERRITIC AND MARTENSITIC STAINLESS STEELS HAVING HIGH MACHINABILITY.  
SEKAPHIN, M. L.  
ACIARS SPEC.  
37, 7-17, 1977.
- E109731  
MAGNETIC SUSCEPTIBILITY AND MAGNETORESISTANCE OF AN IRON - NICKEL - CHROMIUM ALLOY.  
LAKHOV, L. N. TAKZEI, G. A.  
PROKHOROV, V. G. POPOV, A. G.  
DOPROV. AKAD. NAUK UKR. RSR: FIZ.-MAT. TEKH. NAUKI ( 6 ), 533-6, 1977.
- E110165  
INFLUENCE OF THE REDISTRIBUTIONS OF ATOMS IN SUBMICROVOLUMES ON THE PROPERTIES OF THE ALLOY 25KH15.  
GRUZIN, P. L. LI, U. A. RAYEVSKAYA, M. N.  
RODIGNOV, YU. L. SAKSENEIN, O. S.  
PHYS. METALS METALLOGR., USSR  
42 ( 3 ), 106-11, 1976.  
( ENGLISH TRANSLATION OF FIZ. METAL. METALLOVED., 42 ( 3 ), 572-7, 1976; FOR ORIGINAL SEE E107557 )
- E110267  
MAGNETIC AFTER EFFECT ON SPINODAL TYPE OF PERMANENT MAGNET ALLOYS.  
MIYAMOTO, T.  
J. JAP. INST. MET.  
40 ( 11 ), 1111-16, 1976.
- E110984  
LOW-TEMPERATURE ELECTRICAL AND GALVANOMAGNETIC PROPERTIES OF THE IRON - NICKEL AND IRON ( NICKEL CHROMIUM ) SYSTEM.  
JENYABIN, A. V. RODE, V. E.  
FIZ. NIZK. TEMP.  
2 ( 11 ), 1450-5, 1976.  
( FOR ENGLISH TRANSLATION SEE E110985 )
- E110985  
LOW-TEMPERATURE ELECTRICAL AND GALVANOMAGNETIC PROPERTIES OF THE IRON - NICKEL AND IRON ( NICKEL CHROMIUM ) SYSTEM.  
JENYABIN, A. V. RODE, V. E.  
SOV. J. LOW TEMP. PHYS.  
2 ( 11 ), 710-12, 1976.  
( ENGLISH TRANSLATION OF FIZ. NIZK. TEMP., 2 ( 11 ), 1450-5, 1976; FOR ORIGINAL SEE E110984 )
- E111022  
FINE CRYSTAL STRUCTURE OF HARD-MAGNETIC IRON - CHROMIUM - COBALT ALLOYS.  
VINTAYKIN, YE. Z. BARKALAYA, A. A.  
BELYATSKAYA, I. S. SAKHNO, V. M.  
FIZ. MET. METALLOVED.  
43 ( 4 ), 734-42, 1977.  
( FOR ENGLISH TRANSLATION SEE E123625 )
- E111305  
MAGNETIC PROPERTIES OF SINTERED IRON - CHROMIUM ALLOYS.  
KATO, T. KUSAKA, K. KATO, T.  
JENKI SEIKO  
48 ( 2 ), 144-50, 1977.
- E112578  
MEASUREMENT OF GAMMA-ABSORPTION COEFFICIENTS OF MATERIALS USED IN NUCLEAR CONSTRUCTION.  
MAYOUYANNAKIS, E. ANTONIAGES, J.  
NUCL. RES. CENT. DEMOCRITUS GREECE  
APP., 1970.  
( DEMC-70/11 )
- E112649  
LOW-TEMPERATURE ANOMALIES OF THE ELECTRICAL RESISTANCE OF STAINLESS STEEL.  
LAKHOV, L. N. TAKZEI, G. A. FLIS, V. S.  
SHPIKOV, L. A.  
LUPOV. AKAD. NAUK UKR. RSK. SER. A: FIZ.-MAT. TECH. NAUKI  
( 11 ), 1031-4, 1976.
- E113569  
MAGNETIC PHASE DIAGRAM OF GAMMA-IRON - NICKEL - CHROMIUM ALLOYS.  
MENSHIKOV, A. Z. TEPLYKH, A. E.  
FIZ. MET. METALLOVED.  
44 ( 6 ), 1215-21, 1977.  
( FOR ENGLISH TRANSLATION SEE E123904 )
- E113652  
IMPROVEMENTS OF HOT AND COLD DUCTILITIES AND THE MAGNETIC PROPERTIES ON CKS PERMANENT MAGNET ALLOYS.  
KAWIYA, M. SUZUKI, K.  
SUMITOMO TOKUSHU KINZOKU GIHO  
2, 37-41, 1975.
- E115832  
MAGNETIC STATE OF GAMMA-IRON - NICKEL - CHROMIUM ALLOYS IN THE CRITICAL CONCENTRATION REGION.  
MENSHIKOV, A. Z. SIDOROV, S. K.  
TEPLYKH, A. E.  
FIZ. MET. METALLOVED.  
45 ( 5 ), 949-57, 1978.  
( FOR ENGLISH TRANSLATION SEE E124018 )
- E119617  
ELLIPSO-METRIC MEASUREMENT OF OPTICAL CONSTANTS AND THICKNESS OF PASSIVE FILMS FORMED ON 18-8 STAINLESS STEEL.  
MATSUDA, S. SUGIMOTO, K. SAWADA, Y.  
TRANS. JAP. INST. METALS  
18 ( 1 ), 66-74, 1977.  
( ENGLISH TRANSLATION OF J. JAP. INST. MET., 39 ( 1 ), 848-56, 1975; FOR ORIGINAL SEE E95542 )
- E119618  
ELLIPSO-METRIC MEASUREMENTS OF PASSIVE FILMS ON MOLYBDENUM-BEARING AUSTENITIC STAINLESS STEELS.  
MATSUDA, S. HAMANO, K. SUGIMOTO, K.  
SAWADA, Y.  
NIPPON KINZOKU GAKKAISHI  
42 ( 8 ), 868-14, 1978.
- E120411  
MAGNETIC SUSCEPTIBILITY AND MAGNETIC MOMENT OF IRON - CHROMIUM ALLOYS.  
RODE, V. E. FINKELBERG, S. A.  
FANKOVA, G. A.  
PHYS. METALS METALLOGR., USSR  
42 ( 4 ), 199-201, 1976.  
( ENGLISH TRANSLATION OF FIZ. MET. METALLOVED., 42 ( 4 ), 895-6, 1976; FOR ORIGINAL SEE E107271 )
- E123183  
MEASUREMENT OF THE LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY AND HEAT CONDUCTIVITY OF STAINLESS STEELS.  
YAN, S. S. LU, G. ZHOU, Y. Q.  
ZHANG, J. D.  
WULI  
7 ( 5 ), 268-91, 1978.
- E123625  
FINE CRYSTALLINE STRUCTURE OF HARD IRON - CHROMIUM - COBALT MAGNETIC ALLOYS.  
VINTAYKIN, YE. Z. BARKALAYA, A. A.  
BELYATSKAYA, I. S. SAKHNO, V. M.  
PHYS. METALS METALLOGR., USSR  
43 ( 4 ), 48-56, 1977.  
( ENGLISH TRANSLATION OF FIZ. MET. METALLOVED., 43 ( 4 ), 734-42, 1977; FOR ORIGINAL SEE E111022 )
- E123638  
FERROMAGNETIC RESONANCE IN IRON - CHROMIUM SINGLE CRYSTALS.  
POKATILOV, V. S. PUZEY, I. M.  
IVANOV-SHULENSKIY, G. A. MAKAROV, V. P.  
KLIMOVITSKIY, I. K.  
PHYS. METALS METALLOGR., USSR  
43 ( 4 ), 147-54, 1977.  
( ENGLISH TRANSLATION OF FIZ. MET. METALLOVED., 43 ( 5 ), 1114-16, 1977; FOR ORIGINAL SEE E107558 )

- E123904  
MAGNETIC CONSTITUTION DIAGRAM OF GAMMA - IRON  
NICKEL CHROMIUM ALLOYS.  
MENSHIKOV, A. Z. TEPLYKH, A. YE.  
PHYS. METALS METALLOGR., USSR  
44 ( 6 ), 76-84, 1977.  
( ENGLISH TRANSLATION OF FIZ. MET. METALLOVED., 44  
( 6 ), 1215-21, 1977; FOR ORIGINAL SEE E113569 )
- E124018  
MAGNETIC STATE OF GAMMA-IRON NICKEL CHROMIUM ALLOYS  
IN THE CRITICAL RANGE OF CONCENTRATION.  
MENSHIKOV, A. Z. SIDOROV, S. K.  
TEPLYKH, A. YE.  
PHYS. METALS METALLOGR., USSR  
45 ( 5 ), 42-9, 1978.  
( ENGLISH TRANSLATION OF FIZ. MET. METALLOVED., 45  
( 5 ), 949-57, 1978; FOR ORIGINAL SEE E113632 )
- E125932  
EFFECT OF COLD DEFORMATION AND AGEING ON THE THERMAL  
CONDUCTIVITY, ELECTRICAL RESISTIVITY AND LORENTZ  
NUMBER OF CHROMIUM NICKEL AUSTENITIC STEELS.  
NEYMARK, B. YE. BYKOVA, T. L.  
FIZ. MET. METALLOVED.  
15 ( 1 ), 150-1, 1963.  
( FOR ENGLISH TRANSLATION SEE E125933 )
- E125933  
EFFECT OF COLD DEFORMATION AND AGEING ON THE THERMAL  
CONDUCTIVITY, ELECTRICAL RESISTIVITY AND LORENTZ  
NUMBER OF CHROMIUM NICKEL AUSTENITIC STEELS.  
NEYMARK, B. YE. BYKOVA, T. L.  
PHYS. METALS METALLOGR.  
15 ( 1 ), 140-2, 1963.  
( ENGLISH TRANSLATION OF FIZ. MET. METALLOVED., 15  
( 1 ), 150-1, 1963; FOR ORIGINAL SEE E125932 )
- E126281  
DETERMINATION OF THERMAL CONDUCTIVITY, ELECTRICAL  
CONDUCTIVITY, RADIATIVE CAPABILITY OF ELECTRICALLY  
CONDUCTING CYLINDERS WITH INTERNAL HEAT SOURCES.  
SMIRNOV, YE. V.  
DEPOSITED DOCUMENTS, VINITI  
14PP., 1976.  
( VINITI-862-76 )



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